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Data Interpretation Workbook v3

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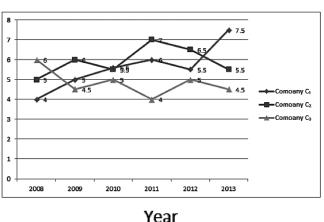
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Set - 1

Directions (1-5): Study the following line graph carefully and answer the questions given below:

Profit % = $\frac{Income-Expenditure}{Expenditure}$

Income (in Rs. lakh)



1. The percentage increase or decrease in the income of company C_2 is highest in which of the following years?

- 1. 2013
- 2.2012

- 3.2011 4.2009 5. 2010 2. If the expenditure of company C_1 in the year2009 was Rs. 2.25 lakh, then what was the profit percentage of C_1 in that year? 1.124% 2.112% 3.122%
- 4.108% 5.118%
- 3. If the profit percentage of company C_2 in the year 2011 is 20%, what was its expenditure in that year? (in Rs, lakh) 1.5.83
- 2.4.58
- 3.4.12
- 4. 6.83
- 5.3.45

4. What is the average income of company C₃ over all the years? (in Rs. lakh) 1. 4.63
2. 3.83
3. 4.83

4.4.23

5. 4.185. What was the approximate percentage increase in the income of company C_1 in the

year 2010 as compared with the year 2008? 1.40% 2.36% 3.32.5%

4. 34.75% 5. 31%

Answer

1. 3;

The percentage increase/decrease in the income of company C_2 in:

$$2010 = \frac{5.5 - 6}{6} \times 100 = 8.3\% \text{ (decrease)}$$

$$2011 = \frac{7 - 5.5}{5.5} \times 100 = 27.27\% \text{ (increase)}$$

$$2012 = \frac{6.5 - 7}{7} \times 100 = 7.14\% \text{ (decrease)}$$

 $2009 = \frac{6-5}{5} \times 100 = 20\% \text{ (increase)}$

$$2013 = \frac{5.5 - 6.5}{6.5} \times 100 = 15.3\% \text{ (decrease)}$$

Company C₁ in 2009: .: Profit percentage =

2.3:

122%

Hence, highes is in the year 2011.

∴ Profit Percentage = $\frac{5-2.25}{2.25}$ x 100 =

Company C₂ in 2011:

$$20 = \frac{7 - Expenditure}{Expenditure} \times 100$$

⇒ 20 Expenditure = 700 – 100E ⇒ E =
$$\frac{700}{120}$$
 = Rs. 5.83 lakh

Average income of company C_3 = Rs. $\left(\frac{6+4.5+5+4+5+4.5}{6}\right)$ lakh = Rs. 4.83 lakh

5. 1;
Required percentage increase
$$= \frac{5.6-4}{4} \times 100 = 40\%$$

5.1:

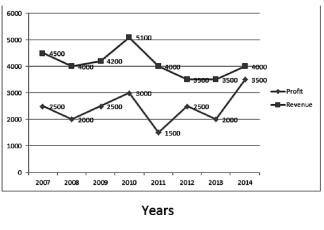
Set - 2

Assuming that there is no fixed component and all the units produced are sold in the same year.



Years

(Value in Rs.)



6. In which of the following years is per unit cost the maximum? 1. 2009
2. 2010

- 3. 2007
- 4. 2011 5. 2013
- What is the average cost during the period
- 2007 to 2014? 1. Rs. 1600.5

2. Rs. 1862.5 3. Rs. 1962.5 4. Rs. 1752.5 5. Rs. 1662.5 8. If the SP per unit decreases by 20% during 2007 to 2010 and the cost per unit increases by 20% during 2011 to 2014, then during how many years is there no profit or loss? None 2. One 3. Two 4. Four 5. Three What is the average of quantities sold during the period 2008 to 2012? 1.146 2.144 3.154 4.150 5.158

```
2007 to 2010 and the CP per unit increased by 25% during 2011 to 2014 then the cumulative profit for the entire period 2007 to 2014 decreased by: 1. Rs. 5725
```

10. if the SP per unit decreased by 25% during

3. Rs. 5225 4. Rs. 5600

5. Rs. 5825

```
6. 4;
Suppose x units are produced in each year
```

In year 2007: 25 x = 4500 or, x = 180

> ∴ CP = Rs. (4500-2500) = Rs. 2000 ∴ Cost per unit

: profit = Rs. 2500

$$=\frac{2000}{180}=\text{Rs. }11.11$$

In year 2008:

$$20x = 4000$$

or, $x = 200$

: profit = Rs. 2000

:: CP = Rs. (4000-2000) = Rs. 2000 .: Cost per unit

$$=\frac{2000}{}$$
 = Rs. 10

In year 2009:

30x = 4200

or, x = 140

: profit = Rs. 2500

:: CP = Rs. (4200-2500) = 1700

:: Cost per unit

= Rs. 12.14 140

In year 2010:

or, or
$$x = 170$$

 \therefore profit = Rs. 3000
 \therefore CP = Rs. (5100 - 3000) = Rs. 12.35
In year 2011:
25x = 4000
or, x = 160
 \therefore Profit = Rs. 1500
 \therefore CP = Rs. (4000-1500) = 2500
 \therefore Cost per unit
= $\frac{2500}{160}$ = Rs. 15.625

30x = 5100

3500

$$35x = 3500$$
or, $x = 100$

∴ profit = 2500∴ CP = Rs. (3500 - 2500) = Rs. 1000

1000 = Rs.10

25x = 3500

:: CP = Rs. (3500-2000)= Rs. 1500 .: Cost per unit

$$=\frac{1500}{140}$$
 = Rs.10.71

In year 2014:

$$20x = 4000$$

or, $x = 200$

: profit = Rs. 3500 :: CP = Rs. (4000 - 3500) = Rs. 500

 $=\frac{500}{}$ = Rs.2.5

maximum.

```
Cost = Revenue - Profit
Cost in 2007 = 4500 - 2500 = 2000
2008 = 4000 - 2000 = 2000
2009 = 4200 - 2500 = 1700
```

2000+20	000+1700+2100+2500+1000+1	500+500 _ Do
_	8	= Rs.
1662.5		

8. 1;

Average

7. 5;

2007	80% of 4500 = 3600	4500-2500=2000
Year	Revenue	Total cost (old revenue – profit)

2011	4000	120% of (4000-1500 = 2500) = 3000
2012	3500	120% of (3500-2500=1000) = 1200
2013	3500	120% of (2500-1000=15000)=1800
2014	4000	120% of (4000-3500=500)=600
9. 3;		
Average	of quantities	sold
_	-	
$= (\frac{40}{})$	00 ₁ 4200 ₁	$+\frac{5100}{30}+\frac{4000}{25}+\frac{3500}{35}$
_ (2	0 30	30 25 35
١٧1		
7 ^ 5		
= (200	+ 140 + 17	70 + 160+ 100) x ¹ / ₅
(200	. 110 . 1.	5
= 770 :	$x\frac{1}{5} = 154$	
	5	

2008

2009

2010

80% of 4000 = 3200

80% of 4200 = 3360

80% of 5100 = 4080

4000-2000=2000

4200-2500=1700

5100-3000=2100

10. 5;

Total decrease in revenue

= 25% of (4500 + 4000 + 4200 + 5100) = 4450

Total increase in cost

= 25% of (2500 + 1000 + 1500 + 500) = 1375 ∴

Decrease in cumulative profit

2800 and 2000 respectively.

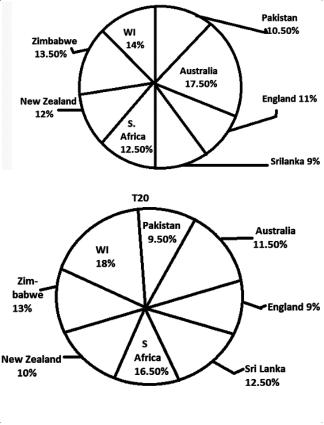
= Total decrease in recenue + Total increase in cost = 4450 + 1375 = Rs. 5825

Set - 3

Directions (11-15): Study the pie-charts carefully and answer the questions given below:

The following pie-charts show the run scored by a batsman against different countries in one-day internationals (ODI) and Twenty (T20) world cup matches. Runs scored by the batsman in ODI and T20 are

ODI



11. If the batsman played 14 innings against Sri lanka in ODI and remained not out in 5 innings. Find his average runs scored against Sri lanka. 1.28 2.24 3.26 4. Other than the given options 5. 22 12. Runs scored by the batsman against New Zealand in T20 matches are approximately what percent of the runs scored against Pakistan in ODI? 1.64% 2.66% 3.62% Other than the given options 5.68% In case of which of the following countries, the difference between the runs scored in ODI and T20 is the second lowest?

- Sri lanka Pakistan 3. South Africa 4. WI Other than the given options 14. The runs scored by the batsman against WI in T20 is approximately what percent of the runs scored against Australia in ODI? Other than the given options 2.71% 3.75% 4.73% 5.69% 15. If the batsman had scored 280 runs against
- Pakistan in T20 matches, What would habv been its percentage in the T20 match, if the total runs scored in T20 remains the same?

 1. Other than the given options

2.12%

3. 16% 4. 14%

5.10%

Answer:

Countries	ODI	T20
Pakistan	294	190
Australia	490	230
England	308	180
Sri Lanka	EX ²⁵² MS (25)	250
5. Africa	350	330
New Zealand	336	200
Zimbabwe	378	260
WI	392	360

Required average runs

$$=\frac{252}{14-5}=28$$

12. 5;

11.1;

Required percentage

 $= \frac{200}{294} \times 100 = 68\%$ 13. 3;

The difference between the runs scored in ODI and T20 against:

Pakistan = 140	Australia = 260
England = 128	Sri Lanka = 2
S. Africa = 20	New Zealand = 136
Zimbabwe = 118	WI = 32

Hence, second lowest is of South Africa.

14.4: Required percentage

$$=\frac{360}{490}$$
x 100 = 73%

Required percentage

15.4:

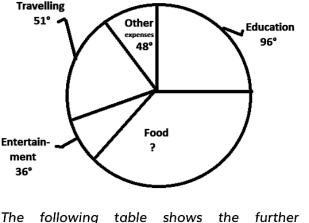
Set -
$$4$$
Directions (16-20): Study the following the pie-chart and table carefully to answer the questions given below:

the monthly family budget of a person.

x 100 = 14%

280

The following pie-chart shows the distribution of



distribution (in percent) of the above-mentioned items among the five family members i.e P (the

mil	nily budget is Rs. 1,20,000				
	Education	Food	Entertainment	Travelling	Other expenses
Р	10	30	10	40	20
w	15	25	30	10	25
Rahul	40	20	20	25	20

25

15

10

15

10

25

person himself), W (his wife), Rahul (son), Rohit (son), and Preeti (his daughter). His monthly

16. What is the average expenses of P? 1. Rs. 5620

2. Other than the given options3. Rs. 5640

15

10

4. Rs. 5460 5. Rs. 5480

Rohit

Preeti

25

10

17. What is the approximate percentage increase in the amount Which Rahul enjoys for entertainment as compared to Preeti for the same?

2. 31%3. Other than the given options4. 37%5. 35%18. The gyerage expenses of Ro

1.33%

- 18. The average expenses of Rohit is approximately what percent of the average expenses of W (Wife)? 1. 76.4% 2. 81.5%
- 3. 79.5% 4. 83.5%
- 5. Other than the given options
- 19. Find the difference (in percentage of the budget) between the average expenses of Education and the average expenses on Entertainment of the couple?
- 2. 0.9% 3. 2%

1.1.3%

- 4. Other than the given options5. 2.5%
- 20. The total amount spent by Rahul on Travelling and Food is approximately what percent of the total amount spent by Preeti on Education and Food?
- 1. Other than the given options
- 2. 168%
- 3. 171% 4. 175%

5. 174%

= Rs. 5460

Average expenses of P = $(10\% \text{ of } \frac{96}{360} + 30\% \text{ of } \frac{129}{360} + 10\% \text{ of } \frac{36}{360^{\circ}} + 40\%$

Of
$$\frac{51}{360}$$
 + 20% of $\frac{48}{360}$) x $\frac{1,20,000}{5}$
= $\frac{960+3870+360+2040+960}{3600}$ x $\frac{1,20,000}{5}$

17. 1;
Amount spent by Rahul on Entertainment

$$= \frac{20}{100} \times \frac{36}{360} \times 1,20,000 = \text{Rs. } 2400$$

Amount spent by Preeti on Entertainment

$$= \frac{15}{100} \times \frac{36}{360} \times 1,20,000 = \text{Rs. } 1800$$

 $\therefore \text{ Required percentage increase}$ $= \frac{2400-1800}{1800} \times 100 = 33\%$

Average expenses of Rohit $= (25\% \text{ of } \frac{96}{} + 15\% \text{ of } \frac{129}{} + 15\% \text{ of } \frac{1$

=
$$(25\% \text{ of } \frac{96}{360} + 15\% \text{ of } \frac{129}{360} + 25\% \text{ of } \frac{36}{360} + 10\% \text{ Of } \frac{51}{360} + 10\% \text{ of } \frac{48}{360}) \times 1,20,000$$

$$= \frac{2400+1935+900+510+480}{36000} \times \frac{1,20,000}{5}$$
$$= Rs. 4150$$

=
$$(15\% \text{ of } \frac{96}{360} + 25\% \text{ of } \frac{129}{360} + 30\% \text{ of } \frac{36}{360} + 10\%$$

Of
$$\frac{51}{360}$$
 + 25% of $\frac{48}{360}$) x $\frac{1,20,000}{5}$
= $\frac{1440+3225+1080+510+1200}{36000}$ x $\frac{1,20,000}{5}$

.: Required percentage

= Rs 4970

$$= \frac{4150}{4070} \times 100 = 83.5\%$$

19. 1;

= ((10+15) of
$$\frac{96}{360}$$
 – (30+10)% of

$$= \frac{\frac{36}{360}}{\frac{2400-1440}{36000}} \times \frac{\frac{1,20,000}{5}}{5} = \text{Rs. } 1600$$

:: Required percentage = $\frac{1600}{1.20,000} \times 100 = 1.3\%$

20.3;

$$= \frac{20\% of_{\frac{360}{260}}^{\frac{129}{360}} + 25\% of_{\frac{360}{260}}^{\frac{51}{360}}}{10\% of_{\frac{360}{260}}^{\frac{96}{360}} + 10\% of_{\frac{360}{260}}^{\frac{129}{360}} \times 100$$

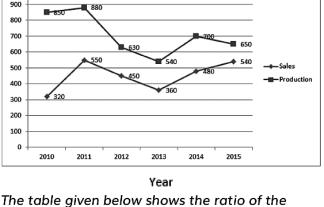
$$=\frac{20\times129+25\times51}{960+1290}\times100$$

$$= \frac{2580+1275}{960+1290} \times 100 = \frac{3855}{2250} \times 100 = 171\%$$

Set - 5

The graph given below represents the production (in tonnes) and sales (in tonnes of a company 'A' from 2010-15.

1000



production (in tonnes) of company A to the production (in tonnes) of company B, and the ratio of the sales (in tonnes) of company A to the sales (in tonnes) of company B.

Year	Production	Sales
2010	17:16	4:5
2011	8:7	11:12
2012	9:10	9:14
2013	18:19	5:6
2014	7:6	12:11
2015	13:14	9:10
percentage inc	the following year is the rease/ decrease in the irom the previous yea	e production
together is app	ile of company A in a roximately what perc n of company A?	•

1.61.5% 2. Other than the given options 3.63.5% 4.65% 5.67% 23. What is the average production of company B in all the years together? 1, 675 tonnes 2. 680 tonnes 3. 690 tonnes 4. 655 tonnes 5. other than the given options 24. What is the total sale of company B in all the years together? 1. 3182 tonnes 2. 3072 tonnes Other than the given options 4. 3192 tonnes 5. 3172 tonnes 25. What is the ratio of production of company B in 2010 to the production of company A in 2012? 1. 77:62

3. 80:61 4.80:63 5. 79:63 Answer: 21. 1;

Percentage increase/decrease in the production of company A are:
$$2011 = \frac{880 - 850}{950} \times 100 = 3.53\%$$

 $\frac{630-880}{}$ x 100 = 28.41% 540-630 x 100 = -14.29%

 $\frac{700-540}{}$ x 100 = 29.63% 540 650-700 x 100 = -7.14%

250

2.80:79

22. 3:

 $=\frac{2700}{4250} \times 100 = 63.5\%$

Required percentage

23. 3;

24. 5:

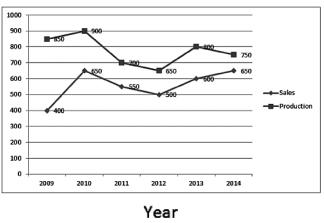
$$=\frac{4140}{6}$$
 = 690 tonnes

Set - 6

Directions (26-32: Study the graph carefully and answer the following questions:

The graph given below represents the production (in tonnes) and sales (in tonnes) of a company from 20092014

Production and Sales (in tonnes)



The table given below represents the ratio of the production (in tonnes) by company A to the production (in tonnes) by company B; and the ratio of the sales (in tonnes) by company A to the sales (in tonnes) by company B.

11:15
4:7
3:7
7:5
1:1

the year 2012 to the production of company A in

Production

EVANACO

Sales

4. 26% 5. 28%

27) What is the average production of company B (in tonnes) from the year 2009 to the year 2014? 1. 368

1. 36

Year

the year 2013?

1. 33% 2. 30% 3. 36% 2.362.5 3.378.5 4.372.5 5.376 28) The sales of company A in the year 2012 was approximately what percent of the production of company A in the same year? 1 44% 2.40% 3.36% 4.38% 5.42% 29) What is the ratio of the total production (in tonnes) of company A to the total sales (in tonnes) of company B in all the years together? 1.161:126 2. 161:125 3. 161:123 4. 169: 126

5. 158: 126 30) What is the average sales of company A from the year 2009 to the year 2014? 1. 254 2, 243 3.234 4.256 5.248 31) What is the ratio of production of company B in the year 2009 to the production of company **B** in the year 2011? 1.9:10 2.6:7

32) What was the approximate percentage more in the production of company B in the year 2014 as compared with the production of Company A

3. 7:8 4. 5:6 5. 8:9 2. 7% 3. 8%

5. 12% •

4.10%

1.6%

in the year 2014?

26) 1;Production of company A in 2012

Answer:

 $=\frac{15}{26} \times 650 = 375$

Production of company A in 2013 $= \frac{5}{8} \times 800 = 500$

:: Required percentage increase

$$=\frac{500-375}{375} \times 100 = 33\%$$

27) 4; Required average

$$= \left(\frac{8}{17} \times 850 + \frac{7}{15} \times 900 + \frac{9}{14} \times 700 + \frac{11}{26} \times 650 + \frac{3}{8} \times 800 + \frac{13}{25} \times 750\right) \times \frac{1}{25}$$

$$\times 900 + \frac{9}{14} \times 700 + \frac{11}{26} \times 650 + \frac{3}{8} \times 800 + \frac{13}{25} \times 750 \times \frac{1}{6}$$

$$= 400 + 420 + 450 + 275 + 300 + 390$$

28) 2; Required percentage

$$= \frac{\frac{3}{10} \times 500}{\frac{15}{26} \times 650} \times 100 = 40\%$$

29) 1;

Total production of company A in all the years together

$$x \frac{15}{17} + 800 x \frac{5}{17} + 750 x \frac{12}{15}$$

26 8 25 = 450 + 480 + 250 +

375 + 500 + 360 = 2415

Total sales of company B

 $= 850 \times \frac{9}{1} + 900 \times \frac{8}{1} + 700 \times \frac{5}{1} + 650$

$$= \frac{3}{5} \times 400 + \frac{15}{26} \times 650 + \frac{17}{11} \times 550 + \frac{7}{10} \times 500 + \frac{5}{12} \times 600 + \frac{1}{2} \times 650 = (240 + 375 + 350 + 350 + 250 + 325) = 1890$$

$$\therefore \text{ Required ratio} = 2415 : 1890 = 161:126$$

$$=\frac{3350-1890}{6}=243$$

31) 5; Required ratio

$$= \frac{8}{17} \times 850: \frac{9}{14} \times 700$$

= 400 : 450 = 8:9

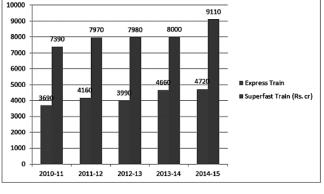
Required percentage increase

$$=\frac{\frac{1}{25}\times750}{\frac{12}{25}\times750}\times100$$

Set - 7

Directions (33-37): Study the following bar graphs to answer the questions given below:

Income of railways from the Super fast trains and Express trains

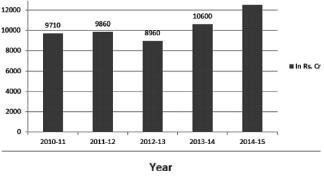


Year

Total Expenditure of the Railway on both (Super fast trains and Express trains) [Profit = Income - Expenditure]

In Rs. Cr

14000



percentage increase/ decrease in the percentage increase/decrease in the total income of the Railways the maximum in comparison to its pevious year? 1. 2012 - 13

33. In which of the following years is the

4. 2013-14 5. Both 1) and 3)

2. 2014 -15 3. 2011-12

34. In which of the following years is the profit of hte Railways the maximum? 1. 2011-12

35. In hoe many years is the income from Express trains less than the average income the Express trains in all the given years together?
1. 3
2. 1
3. None
4. Other than the given options
5. 2

2. 24%
 28%
 20%

2. 2012-13
 3. 2013-14

5. 2010-11

4. Other than the given options

36. What is the approxiamate percentage income from Super fast train in 2011-12 in comparison to the total income from Super fast

trains for all the given years?

1. Other than the given options

5. 29%

5.86.7%

- 37. The total expenditure of the Railways on both the trains is approximately what percent of the total income of the Railway from both the
- trains for all the given years together?

 1. 83.7%

 2. 81.6%
- 3. Other than the given options4. 78.9%

33. 3
In 2011 - 12 = $\frac{12130 - 11080}{11000}$ x 100 = 9.48%

 $2012 - 13 = \frac{11970 - 12130}{12130} \times 100 = -1.32\%$ $2013 - 14 = \frac{12660 - 11970}{11970} \times 100 = 5.76\%$ $2014 - 15 = \frac{13830 - 12660}{11970} \times 100 = 9.24\%$

Hence, maximum increase is in 2011-12

```
34. 2;
Profits in (Rs. Crore):
2010 -11 = 1370, 2011-12 = 2270, 2012-13 = 3010
```

2013-14 = 2060,2014 - 15 = 1330 Hence, maximum profit is in 2012-13 **35. 1**;

Average income from the Express train

 $\frac{21220}{}$ = Rs. 4244 crore

average income from Express trains is les

Required percentage =

 $\frac{7970}{40450} \times 100 = 20\%$

36. 4:

37. 1;Required percentage =

$$\frac{51630}{21220+40450} \times 100$$

$$\frac{51630}{61670}$$
 x 100 = 83.7%

Set - 8

Directions (38-42): Study the table carefully answer the questions given below.

Following table shows the percentage population of six states below poverty line and the proportion of males and females?

		Proportion of male and female				
State	Percentage population below poverty line	Below poverty line M: F	Above poverty line M: F			
S ₁	16	4:3	3:2			
Sz	18	3:4	5:7			
S3	26	2:3	4:5			
S₄	28	5:6	1:2			
S₅	12.5	3:2	6:5			
S ₆	36	4:5	2:3			

38. If the total population of state S₁ is 4400, then what is the approximate number of females above the poverty line in state S₁?

1. 1478

2. Other than the given options

3. 1578 4. 1484

5. 1487

39. If the total population of state S₃ and s₄ together is 17000, then what is the total number of females below the poverty line in the

above-mentioned states?
1. 1320
2. 6820
3. 4850
4. Data inadequate

40. If the population of males below the poverty line in state S_2 is 18000 and that in state S_5 is

24000, then what is the ratio of the total

Other than the given options

```
population of state S_1 to that of state S_5?
1. 315:512
2.316:513
Other than the given options
4. 315:513
5. 319:512
41. If the population of males above the poverty
line in state S_2 is 4100 then what is the total
population of that state?
1.Other than the given options
2.12500
```

42. If in state S_6 the population of females above the poverty line in 4800 then what is the population of males below the poverty line in

3. 13000 4. 14000 5. 12000

that state?
1. 2400
2. 2000

4. Other than the given options 5. 2800

3.2500

38.1;

answer.

40.1;

Answer:

Number of females above poverty line

$$= \frac{100-16}{100} \times 4400 \times \frac{2}{5} = 1478.4 = 1478$$

Population of state S_1 below poverty line = $18000 \times \frac{4+3}{4} = 31500$

tal population of state S

Total population of state S₁

$$= 31500 \times \frac{100}{16} = 196875$$

Population of state S_5 below poverty line

$$= 24000 \times \frac{3+2}{3} = 40000$$

Population of state S₅

=
$$40000 \times \frac{100}{12.5}$$
 = 320000
:: Required ratio = 196874 : 320000 = 315 : 512

42.2:

Total population of state S_2

$$=4100 \times \frac{5+7}{5} \times \frac{100}{100-18} = 12000$$

Number of males below poverty line

 $= 4800 \times \frac{2+3}{3} \times \frac{100}{100-36} \times \frac{36}{100} \times \frac{4}{9} = 2000$

Directions (43-47): Study the following information carefully and answer the questions given below:

On the occasion of a cultural program in a

Set - 9

stadium, there are 400 artists in all who are participating in four different events viz- Drama, Dance, Skit, and Singing.
The ratio of male to female artists is 2:3. 25% of the female artists are participating in Drama. 40% of the female artists are participating in Dance. The remaining female artists are participating in Skit and Singing in the ratio of 4:3. The ratio of male artists who are participating in Drama and other events together is 1:7. 25% of those male artists who are not participating in Drama are participating in

Singing. The remaining male artists are

3:4.

participating in Dance and Skit in the ratio of

- 43. What is the total number of female artists who are participating in Drama and Skit together? 1. 106
 2. 104
 3. 108
 4. 112
 5. 110
 44. What is the difference between the male artists participating in Skit and the female
- artists participating in Skit and the female artists participating in Singing?

 1. 20
 2. 24

3.22

- 4. 255. 2145. What is the ratio of the female artists
- 45. What is the ratio of the female artists participating in Singing to those male artists participating in Dance?
 1. 2:3

2.5:6 3.3:4 4.6:7 5.4:5 46. What is the total number of artists participating in Dance and Drama together? 1. 22 2, 222 3.208 4, 228 5.218 47. What is the ratio of the male artists participating in Singing to the female artists participating in Skit? 1. 39:47 2. 38:47 3. 36:47 4. 35:48 5.35:47 Answer:

Number of male artists = 160Number of female artists = 240

(43-48):

Male	Female
Drama = $\frac{1 \times 160}{8}$ = 20	Drama = $\frac{25 \times 240}{100}$ = 60
Dance = $105 \times \frac{3}{7} = 45$	Dance = $\frac{40 \times 240}{100}$ = 96
Skit = $105 \times \frac{4}{7} \times 60$	Skit = $\frac{4}{7} \times 84 = 48$
Singing = $\frac{25 \times 140}{100}$ = 35	Singing = $\frac{3}{7} \times 84 = 36$

44.2; Required difference = 60 - 36 = 24

45. 5; Required ratio = 36:45=4:5

46. 1; Required answer = (20+45) + (60+96) = 65 + 156 = 221

47.4;

Required ratio = 35:48

Set - 10

Directions (48-52): Study the table carefully answer the questions given below.

In six years, the number of students taking admissions and leaving from the five different colleges which were founded in 2010 is given below.

	,	A		В	С		E)	E	
College Years	A	L	A	EXEAN	SAT	L	A	L	A	L
2010	1125		1050		1200		1600		1550	
2011	330	220	450	250	420	230	440	250	350	225
2012	290	210	325	215	400	250	400	260	380	230
2013	345	200	285	210	360	225	395	220	410	220
2014	380	250	300	190	340	240	420	225	440	210
2015	350	230	340	220	410	280	460	240	425	215

Note:

L - Leaving 48. What is the average number of students studying in all the five colleges in 2012? 1. Other than the given options 2.1594 3.1694 4. 1574 5.1584 49. What was the number of students studying in college B in 2014? 1. 1555 2. Other than the given options

50. The number of students leaving college from the year 2010 to 2015 is approximately what per cent of the number of students taking admission in the same college and during the

A - admitted

3. 1445
 4. 1545
 5. 1645

- same year? 1. 37% 2.43% 3.39% 4.41% 5. Other than the given options 51. What is the difference behaviour the 2011 and 2015 in college D and B? 2.395
- number of students taking admission between
- 1.415
- 3.435 4. Other than the given options
- 5.385
- 52. In which of the following colleges, is the percentage increase in the number of students from the year 2010 to 2015 the maximum? 1. D
- 2. A 3. B

48. 2;Total number of students studying in all the colleges in 2012
= (1125 + 330 + 290 + 1050 + 450 + 325 + 1200 + 420 + 400 + 1600 + 440 + 400+ 1550 + 350 +

380) - (220 + 2 10 + 250 + 215 + 230 + 250 + 260 +

∴ Required average = 7970/5 = 1594

Answer:

4. E 5. C

225 + 230) = 7970

49.4:

Required number of students = 1050 + (450-250) + (325-215) + (285 - 210) + (300-190) = 1545

50. 3; Required percentage = 1225/3130 x 100 = 39%

Required difference

51.1;

Increase in the number of students in college A = (330 - 220) + (290 - 210) + (345 - 200) + (380 -

Percentage increase in 2015 from 2010

$$=\frac{585}{1125} \times 100 = 52\%$$

College B =
$$\frac{615}{1050}$$
 x 100 = 58.57%
College C = $\frac{705}{1200}$ x 100 = 58.75%

College D =
$$\frac{1200}{1600}$$
 x 100 = 57.5%

College E = $\frac{565}{1550}$ x 100 = 58.38% Hence, maximum is for college C.

Set 11

Botany, Mathematics, Physics and Statistics. The ratio of the number of boys and girls among them is 6:8.30% of the total girls are doing graduation in Zoology and 20% of the total girls are doing graduation in Statistics. The total number of students doing graduation in Botany is 220. 250 students are doing graduation in Mathematics. The ratio of the number of girls and the number of boys doing graduation in Statistics is 2:1.20% of the total number of boys are doing graduation in Botany. The ratio of the number of girls and that of boys doing graduation in Mathematics is 2:3. There are an equal number of boys and girls doing graduation in Physics. 290 students are doing graduation in Zoology. 53. What is the total number of students doing graduation in physics and Statistics together? 1.

510

In a college there are 1400 students who are doing graduation in any one of the subjects, out

of the five different subjects viz. zoology,

2.540 3.640 4.620 5.660 54. What is the ratio of the number of boys doing graduation in Mathematics and to a number of girls doing graduation in Botany? 1.1:2 2.3:1 3.3:4 4.3:2 5.2:1 55. What is the difference between the number of boys doing graduations in Zoology and the number of girls doing graduation in Mathematics? 1.50 2.75 3.60

- 5. 5556. In which of the following graduation courses, the number of the girls the highest and in which
- respectively?

 1. Statistics and Zoology

 2. Zoology and Botany

course is the number of boys is second lowest

- Physics and Statistics
 Zoology and Statistics
- 5. Physics and Zoology
- 57. The number of girls doing graduation in Statistics is what percent of the number of boys doing graduation in physics?
 1.76%
- 3. 80% 4. 81%

2.75%

4.45

5. 78%

(53-57) Number of boys = 600

Number of girls = 800

53.3;

	Girls	Boys
Zoology	30 x 8 = 240	290 - 240 = 50
Botany	220 - 120 = 100	20 x 6 = 120
Mathematics	2/5 x 250 = 100	3/5 x 350 = 150
Physics	200	200
Statistics	20 x 8 = 160	160/2 = 80

Required answer = 200 + 200 + 160 + 80 = 640

54. 4;

Required ratio = 150 : 100 = 3:2

55. 1; Required difference = 100 - 50 = 50

56. 4;Zoology and statistics

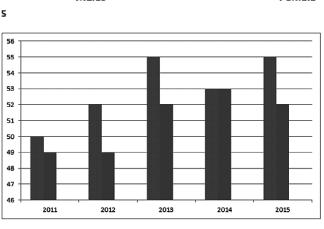
57. 3;Required percentage = 160/200 x 100 = 80%

Set - 12

Direction (58-62): Study the bar graph and line graph carefully to answer the questions given below.

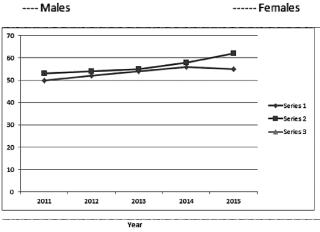
The bar graph shows the number of males and females (in thousand) in town X during the given years.

Males Female



Year

The line graph shows the number of males and females (in thousand) in town Y during the given years.



58. What is the ratio of the average number of males in town X to the average of males in town Y for the given period?
1. 269:282

2. 265:281

- 4. 265:282 5. Other than the given options
- 59. In which of the following years, is the percentage increase or decrease in the number of females for town Y the minimum?

60. The population o town X in 2011 and 2012 together is approximately what per cent of the

3. 2012 4. 2013

3. 265:283

1. 2015 2. 2014

5. Both 1) and 2)

- population of town Y in 2014 and 2015 together?

 1. Other than the given options
- 2. 81.6%3. 89.6%
- 4. 84.5%

- 61. Find the number of years in which the
- number if females in town X and Y are less their respective average numbers.

 1. One, Two
- 2. Two, Two 3. None
- 4. Three, Two
 5. Other than the given options

5.86.6%

- 62. In which of the following pairs of years in the
- difference in the number of males and females the maximum for town Y and minimum for town Y and minimum for town X respectively? 1. 2011

Answer:

- and 2014 2. 2015 and 2011 3. 2015 and 2014
- 4. 2013 and 2015 5. Other than the given options
 - rad ratio

=
$$\frac{50+52+55+53+55}{5}$$
 x 1000:
 $\frac{53+54+55+58+62}{5}$ x 1000 = 265 : 282

59. 1; The percentage increase or decrease in the number of females for town Y are as under;

$$2012 = \frac{52-50}{50} \times 100 = 4\%$$

$$2013 = \frac{54-52}{52} \times 100 = 3.85\%$$

$$2014 = \frac{56-54}{54} \times 100 = 3.70\%$$

$$2015 = \frac{55-56}{56} \times 100 = 1.78\%$$

Hence, minimum is in 2015.

60. 5; Required percentage

$$= \frac{(50+49)+(52+49)}{(58+56)+(62+55)} \times 100$$
$$= \frac{200}{231} \times 100 = 86.6\%$$

51000
Average number of females for town Y = 53400
So, 2011 and 2012 are two desired years for town X. Also, 2011 and 2012 are two desired

years for town Y. 62. 3; Difference between the

61. 2; Average number of females for town X =

population of males and females;								
	2011	2012	2013	2014	2015			
x	1000	3000	3000	0	3000			
Y	3000	2000	1000	2000	7000			

∴ Desired pair is 2015 and 2014.

Set - 13

Details of employees deployed at different

Direction (63-68): Study the table carefully and answer the questions given below:

levels by a company in different departments.

	Manager		Officer		
Department	Number	M:F	Number	M:F	

Finance	2500	14:11	3200	17:15				
Advertising	2900	12:17	1600	9:7				
Sales	2400	9:7	2600	8:5				
Procurement	2700	5:4	2200	9:13				
63. The total r	number of	female e	employee	5				
(Managers an	d Officers) in Proc	ırement					
department is	approxim	ately by	what per	cent				
more than the	ir male co	unterpai	ts?					
1. 2%								
2. 6%								
3. 4%								
4. 8%	4. 8%							
5. 9%								
64. The number of female managers in Finance								
department is what per cent of the total number								
of male managers in Sales department?								
1. 77%								
1. / / 70								

Operations

Public relations

2200

1800

7:4

5:4

6:8

9:11

2800

2500

2.82% 3.78% 4.84% 5.81% 65. What is the ratio of the total number of female managers in Operations and Finance departments to that of male officers in these two departments? 1. 25:29 2. 19:26 3. 19:25 4. 19:29 5. 22:29 66. The total number of male officers in Advertising nad Sales departments is approximately what per cent the total number of officers in these two department? 1.55.8% 2.56%

- 3. 57.5%
 4. 54%
 5. 59.5%
 67. What is the different between the total
- number of female officers in Advertising and Public Relations department and the total number of female managers in these two department? 1. 405 2. 415 3. 425
- 5. 395
 68. What is the ratio of the total number of managers in Public relations, Finance, Sales and Operations department to the total number of officers in Finance, Advertising. Sales and

procurement department? 1.89:95

2. 87:96 3. 87:89

4.435

Answer: 63. 3;

Procuremet Department: Male manager = $\frac{5}{9}$ x 2700 = 1500

4. 93:95 5. 89:96

Female Manager = $\frac{4}{9}$ x 2700 = 1200

Male Officers = $\frac{9}{22} \times 2200 = 900$ Female Officers = $\frac{13}{22} \times 2200 = 1300$

Total female employees = 1200 + 1300 =

2500Total male employees = 1500 + 900 = 2400 ∴

Required percentage more $= \frac{2500 - 2400}{2400} \times 100 = 4\%$

64. 5; Female managers in Finance department

$$=\frac{11}{25} \times 2500 = 1100$$

Male managers in Sales department

$$= \frac{9}{16} \times 2400 = 1350$$

$$\therefore Required percentage = \frac{1100}{1350} \times 100 = 81\%$$

65.4;

$$= \frac{4}{11} \times 2200 + \frac{11}{25} \times 2500$$
$$= 800 + 1100 = 1900$$

Male officers in Operation and Finance

department together $= \frac{6}{100} \times 2800 + \frac{17}{100} \times 3200$

$$= \frac{6}{14} \times 2800 + \frac{17}{32} \times 3200$$
$$= 1200 + 1700 = 2900$$

66. 5; Male officers in Advertising and Sales

departments
$$= \frac{9}{16} \times 1600 + \frac{8}{13} \times 2600$$

.: Required percentage

:: Rquired ratio = 19: 29

= 900 + 1600 = 2500

$$=\frac{2500}{1600+2600} \times 100 = 59.5\%$$

67. 3; Female officers in Advertising and Public relation

$$= \frac{7}{16} \times 1600 + \frac{11}{20} \times 2500$$
$$= 700 + 1375 = 2075$$

Female managers in Advertising and Public Relation

$$=\frac{17}{29} \times 2900 + \frac{4}{9} \times 1800$$

68. 5;

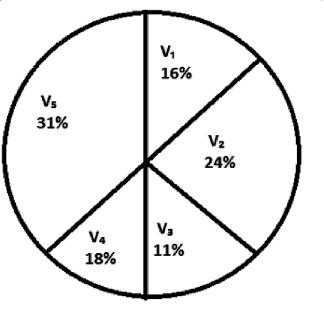
Required Ratio

Set - 14

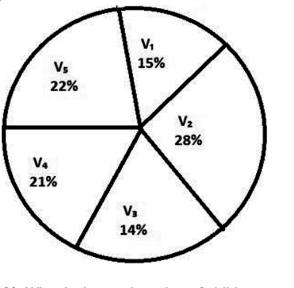
Directions (69-73): Study the following pie - charts carefully and answer the questions given below:

Percentage break up of the number of children in five different villages and break up of children Attending school from those villages

Total number of children = 5800



Total number of children attending schools = 3600



69. What is the total number of children not attending school from village V_2 and V_3 together? 1. 528

508
 518

3. 518

4. 618 5. 628 70. The number of children attending school from village V_1 is approximate, what percent of the number of children from that village? 1.54%

2. 56% 3. 60%

3.264

4. 53% 5. 58%

71. What is the approximate average number of children not attending school from village V₂, V₃ and V₄ together?

and V₄ together?
1. 269
2. 258

4. 2705. 26672. The number of children not attending school

from village V_4 and V_5 is approximately what

```
1.43.65%
2.42.5%
3.48%
4.46%
5.49.45%
What is the ratio of the total number of
children from village V₄ to the number fo
children attending school from the same village?
1. 22:21
2. 29:28
3. 29:21
4. 29:27
```

percent of the total number of children from

village V_4 and V_5 together?

69.3;

5 23:21 Answer:

Required answer

=
$$\left(\frac{24}{100} \times 5800 - \frac{28}{100} \times 3600\right)$$

+ $\left(\frac{11}{100} \times 5800 - \frac{14}{100} \times 3600\right)$
= $1392 - 1008 + 638 - 504 = 384 + 134 = 518$

Required percentage
$$= \frac{15 \times 36}{16 \times 58} \times 100 = 58\%$$

70.5:

$$=\frac{1392-1008+638-504+1044-756}{3}$$

= 268.67 = 269

72.4; Required percentage

$$= \frac{(18 \times 58 - 21 \times 36) + (31 \times 58 - 22 \times 36)}{(31 \times 58 + 18 \times 58)} \times 100 =$$

$$\frac{(1044 - 756) + (1798 - 792)}{(1044 - 756) + (1798 - 792)} \times 100$$

 $\frac{1798+1044}{288+1006} \times 100 = \frac{1294}{2932} \times 100 = 46\%$

Required ratio

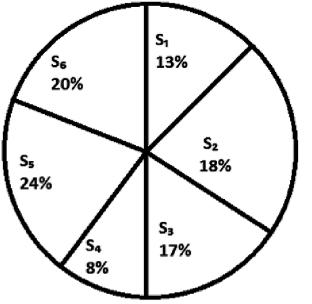
73.3:

Set - 15

Directions (74-78): Study the following pie- charts and table carefully and answer the questions given below:

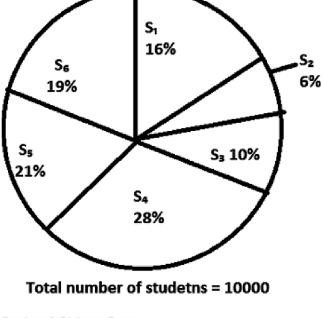
Details of students who scored from six schools of Delhi in Class XIIthe result:

95 per cent and above:



Total number of students = 6000

Score between 90-95 per cent



Ratio of Girls to Boys

School	95 per cent and above	Between 90-95 percent
S,	11:5	3:2
S ₂	5:7	1:4
S3	3:5	5:3
S₄	7:1	2:3
S ₅	5:4	9:5
S ₆	5:3	3:4
1. 115 2. 120 3. 100 4. 110 5. 125 75. The num between 90 -	95 per cent from s ber of girls of scho 95 percent is appr he no. of girls of sc	ol S₂ who scored oximately what

- 1.28.57% 2. 22.46% 3. 29.95% 4. 35.48% 5. 32.46% 76. The number of boys of school S_5 and S_6 together who scored 95 percent and above is approximately what percent more or less than the number of girls of school S_2 and S_5 together who scored between 90-95 percent? 1. 26% more 2, 22% more 26% less 4. 24% more 5. 32% less
- 77. The average number of girls who scored 95 percent and above from all the schools together is 1.503

3.518

- 5. 55678. What was the ratio of the number of boys of school S₃ who scored between 90-95 percent to
- the number of boys, who scored 95 percent and above in the same school?

 1. 5:9
- 1. 5:9 2. 10:17 3. 10:13 4. 8:9

Answer:
74. 4;
Required difference
5 21 4 24

Required difference = $\frac{5}{14} \times \frac{21}{100} \times 10000 - \frac{4}{9} \times \frac{24}{100} \times 6000$

= 750 – 640 = 110

75.1:

4.545

Required percent

$$\frac{\frac{6}{100} \times 10000 \times \frac{1}{5}}{\frac{8}{100} \times 6000 \times \frac{7}{8}} \times 100$$

$$= \frac{24}{100} \times 6000 \times \frac{4}{9} + \frac{20}{100} \times 6000 \times \frac{3}{8}$$

$$= \frac{6}{100} \times 10000 \times \frac{1}{5} + \frac{21}{100} \times 10000 \times \frac{9}{14}$$

 $= \frac{1470 - 1090}{1470} \times 100 = 26\% \text{ less}$

$$= \frac{6}{100} \times 10000 \times \frac{1}{5} + \frac{21}{100}$$

= 120 + 1350 = 1470.: Required percent less

$$x = 10000 \times \frac{9}{14}$$

$$x 10000 x \frac{9}{14}$$

O x
$$\frac{9}{14}$$

Required average
=
$$\left[\frac{13 \times 11}{16} + \frac{18 \times 5}{12} + \frac{17 \times 3}{8} + \frac{8 \times 7}{8} + \frac{24 \times 5}{9} + \frac{20 \times 5}{8}\right] \times \frac{6000}{100 \times 6}$$

77. 5;

78. 2;

Required ratio

6000 = 10:17

 $=(\frac{677}{16}+\frac{40}{2})\times 10$

 $=(\frac{2031+640}{40}) \times 10 = 556$

 $=\frac{3}{8} \times \frac{10}{100} \times 10000 : \frac{5}{8} \times \frac{17}{100} \times$

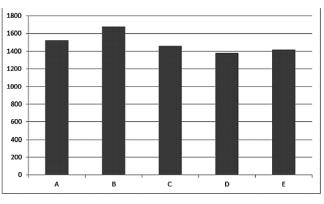
$$= \left[\frac{\frac{143}{16} + \frac{15}{2} + \frac{51}{8} + \frac{56}{8} + \frac{40}{3} + \frac{100}{8}\right] \times 10$$

$$= \left[\frac{\frac{143+120+102+112+200}{16} + \frac{40}{3}\right] \times 10$$

Set - 16

Directions (79-83): Study the following line graph and table carefully and answer the questions given below.

Numbers of employees working in five different banks A, B, C, D and E.



Banks

Ratio of males to females employees

Bank	M:F
Α	13:6
В	4:3
С	9:11
D	10:13
E	13:7
79. What is the total nutaking all the banks tog 1. Other than the given 2. 4060 3. 4120 4. 4180 5. 4280	•
80. What is the average	
employees taking all th	e banks together? 1. 656
2. 686	
3. 668	
4. Other than the given	options
5. 646	

- 81. Approximately by what percent is the number of male employees working in banks A and C together more than that of the total number of female employees working in bank B and D? 1. Other than the given options
- 3. 15% 4. 11%

2.9%

5. 13%

4.7:3

- 82. What is the ratio of female employees working in bank D to that in E? 1. 7:4
- 2. Other than the given options3. 8:5
- 5. 9:5

 83. Approximately by what per cent is the
- number of total employees o bank C more than that of bank D? 1.8%

3. Other than the given options4. 4%

Male employee

5. 10%

Answer:

Female employees

(79-83):

Α	1040	480
В	960	720
С	657	803

C	657	803
D	600	780
E	923	497
79. 4;		

Required answer = 4180 **80.1**;

Required average

$$=\frac{3280}{5}=656$$

81. 5;

Required percentage more $= \frac{(1040+657)-(720+780)}{720+780} \times 100$ $= \frac{1697-1500}{1500} \times 100 = 13\%$

82. 2:

- /00.43/

Required percentage

$$\frac{1460 - 1380}{1380} \times 100 = 6\%$$

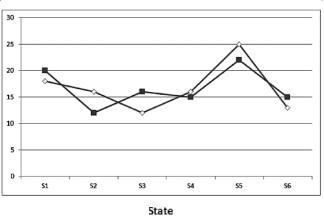
Set - 17

Directions (84-91): Study the following graph carefully and answer the questions given below:

The line graph represents the percentage candidates qualifies in a competitive examination from 6 states during the given two years.

2013 ---- Blue

2014 ---- Red



The table given below represents the total number of candidates appeared, percentage of candidates qualified in all the six states together in the year 2013 and 2014.

Year	Appeared	Qualified
2013	1,42,000	45%
2014	1,80,000	52%

Ratio of male to the female candidates qualified from different states in both the years.

State	2013	2014			
Sz	5:4	28:17			
52	3:1	5:3			
S ₃	7:5	11:5			
S ₄	13:11	15:11			
S ₅	13:12	15:9			
S ₆	8:1	11:9			
 84. The number of female candidates qualified from state S₂ in 2013 is approximately what per cent of the male candidates qualified from S₁ in 2014? 1. 16% 2. 22% 3. 20% 4. 14% 5. 18% 					
85. If in 2014 in state S ₁ four female candidates					
qualified are not eligible then what is the average number of female candidates qualified					

from all the states together in the year 2014? 1.5990 2.5900 3.5920 4.5940 5.5960 86. What is the ratio of the number of female candidates qualified from states S₁ and S₂ together in 2013 to the number of male candidates qualified from the same states in the year 2014? 1.8307:21844 2.8407:21944 3.8307:21944 4.8307:20894 5.8037:29144 87. What is the average number of candidates qualified from states S_2 , S_3 , S_4 and S_6 together in

the year 2013?

2. 9005.75 3.9105.75 4. 9505.75 5. 9205.75 88. What is the approximate average number of male candidates qualified from all the states together in the year 2013? 1.6427 2.6267 3.6672 4.6607

1.9405.75

5.6627

89. The number of male candidates qualified from state S_s in 2014 is what per cent more or less than the number of male candidates qualified from state S_s in 2013?

1. 72% less
2. 74% more

- 3. 70% less
 4. 76% more
 5. 78% more
 90. From which of the following states in the year 2013, is the number of female candidates qualified the maximum?
 1. S_5 2. S_6 3. S_4 4. S_1
- 91. From which of the following states in the year 2014, the number of male candidates
- qualified is minimum?

 1. S₄

 2. S₄
- 2. S₁
 3. S₅
 4. S₂
- 5. S₃

5. S₂

(84-91):

Number of candidates qualified in the year 2013

Answer:

	52×180		3600			
States	2013	20	13	2014	20	14
	Qualified	м	F	Qualified	м	F
S ₁	18 x 639 = 11502	6390	5112	20 936 = 18720	11648	7072
	44 600					

S ₁	18 x 639 = 11502	6390	5112	20 936 = 18720	11648	7072
S ₂	16 × 639 = 10224	7668	2556	12 x 936 = 11232	7020	4212
S₃	12 × 639 = 7668	4473	3195	16 x 936 = 14976	10296	4680

S ₂	16 x 639 = 10224	7668	2556	12 x 936 = 11232	7020	4212
S₃	12 x 639 = 7668	4473	3195	16 x 936 = 14976	10296	4680
S₄	16 x 639 = 10224	5538	4686	15 x 936 = 14040	8100	5640
S ₅	25 x 639 = 15975	8307	7668	22 x 936 = 20592	12870	7722
S ₆	13 x 639 = 8307	7384	923	15 x 936 = 14040	7722	6318

87.2;

```
Required average
7068+4212+4680+5940+7722+6318
                       6
= 5990
86.3:
Required ratio
= 5112 + 3195 · 11648 + 10296
= 8307 \cdot 21944
87.3:
Required average
     10224+7668+10224+8307
                   4
9105, 75
88. 5;
Required average
       6390+7668+4473+5538+8307+7384
```

Required percentage 2556

85.1:

 \cdot x 100 = 22%

89.2:

= 6627

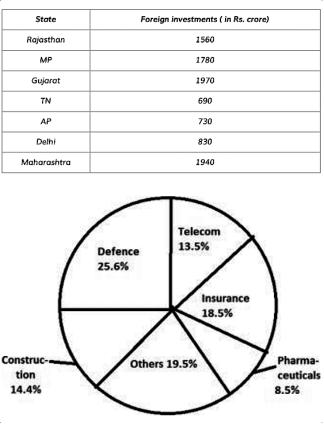
Required percentage more 12870-7384

$$= \frac{12876 - 7384}{7384} \times 100 = 74\%$$
90. 1
91. 4

Set - 18

Direction (92-96): Study the following table and pie- chart carefully to answer the questions given below: The table shows the state - wise foreign

investments and the pie- chart shows the percentage distribution of investments in different sectors in 2014-2015 for each states.



- 92. What is the total foreign investment in Other sectors by all the given states together? (in Rs. Crore) 1. 1648.5
- 3. 1852.5 4. 1438.5 5. 1952.5

2.1752.5

2.101%

93. The foreign investment in Insurance sector in Rajasthan is approximately what percent of the foreign investment in Construction sector in Maharashtra?

Other than the given options

- 3. 108% 4. 107% 5. 103%
- 94. The foreign investment in Pharmaceutical sector in AP is approximately what percent

less than the foreign investment in Telecom sector in delhi? 1.47.6% 2.44.6% 3. Other than the given options 4.49.6% 5.45.8% 95. For which of the following pairs of states, the ratio of foreign investment in Defence sector is 52:23? 1. Rajasthan, TN Maharashtra, TN MP, AP 4. MP, TN Gujarat, Delhi 96. What is the ratio of the foreign investment in Defence sector in Gujarat to that in Construction and Insurance sector together in MP? 1. 27246:27284 2. 25216:29381 3. 25316:28391

5. Other than the given options

4. 25216:29281

Answer: 92. 3;

92. 3; Total foreign investment in other sectors

= 19.5/100 x (1560+1780+1970+690+730+830+1940) = Rs. 18.52 crore

3.52 crore

93. 5; Required percentage

 $= \frac{18.5 \times 1560}{14.4 \times 1940} \times 100$ $= \frac{28860}{14.4 \times 1940} \times 100 = 1039$

 $= \frac{28860}{27936} \times 100 = 103\%$ 94. 2;

Foreign investment in Pharmaceutical sector in AP

AP

Foreign investment in telecom sector in Delhi =
$$830 \times \frac{13.5}{100} = \text{Rs. } 112.05 \text{ crore}$$

 $=\frac{730\times8.5}{}$ = Rs. 62.05 crore

:: Required percentage less =

$$= \frac{112.05 - 62.05}{112.05} \times 100 = 44.6\%$$

95.1: Ratio of foreign investment in Defence sector in states are as under

Rajasthan: TN = 1560: 690 = 52:23

Maharashtra: TN = 1940: 690 = 194:69MP : AP = 1780 : 730 = 178 : 73

MP: TN = 1780: 690 = 178: 69 Gujarat : Delhi = 1970 : 830 = 197 : 83

96.4: Required ratio =

$$=\frac{25.6}{100} \times 1970 : \frac{(14.4+18.5)}{100} \times 1780$$

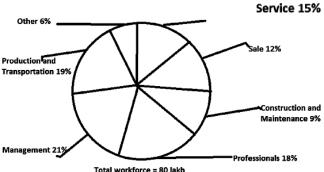
= 256 x 197:329 x 178

= 25216: 29281

Set - 19

Direction (97-101): Study the following ple-chart and table carefully and answer the question given below:

Percentage distribution of workforce of India in different employment sectors



Ratio of male to female workforce in different

employment sectors.

Sector	M:F
Service	3:2
Sales	5:3
Construction and Maintenance	5:4
Professionals XAMS 777	5:7
Management	3:4
Production and Transport	5:3
Others	3:5

- 97. What is the average number of male workforce (in lakh) in all the sectors together? (rounded off to two decimal places)
 1. 6.39
- 2. Other than the given options
- 3. 4.69
- 4. 5.96
- 5. 7.48
- 98. The number of female workforce in Service and Professional sectors together is what per

Construction and Maintenance sector? 1.330% 2.318% 3.320% 4.328% Other than the given options 99. The number of male workforce in Sales and Management Sectors is approximately what per cent of the total number of workforce in Production and transport sector? Other than the given options 2.82% 3.87% 4.89% 85% 100. The number of female workforce in Sales and Management sectors is approximately by what per cent more than the number of female

cent of the number of male workforce in

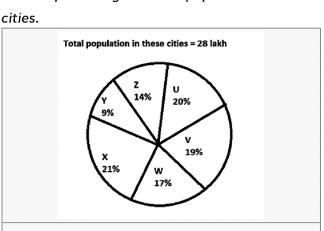
```
workforce in Production and Transport Sector?
1. 128.8%
2. 131.6%
Other than the given options
4. 126.5%
5, 134,7%
101. What is the ratio of hte number of female
workforce in constructions and Maintenance
sector to the number of male workforce in
Professionals and other sectors?
1. 17:39
2. 16:37
3. 16:35
4. Other than the given options
5. 16:39
                      Answer:
(97-101)
```

Total Workforce (in lakh)	Male (in lakh)	Female (in lakh)				
12	7.2	4.8				
9.6	6	3.6				
7.2	4	3.2				
14.4	6	8.4				
16.8	7.2	9.6				
15.2	9.5	5.7				
4.8	1.8	3				
97. 4; Required average = = 5.96 lakh 98. 1; Required percentage = x 100 = 330% 99. 3; Required percentage = x 100 = 87% 100. 2; Required percentage = x 100 = 131.6% 101. 5; Required ratio = 3.2 : 6 + 1.8 = 3.2 : 7.8 = 32: 78 = 16:39						
	Workforce (in lakh) 12 9.6 7.2 14.4 16.8 15.2 4.8 average = percentage ntage = x 1 ntage % d ratio = 3.2	Workforce (in lakh) 12 7.2 9.6 6 7.2 4 14.4 6 16.8 7.2 15.2 9.5 4.8 1.8 average = 5.96 lakh percentage = x 100 = 3.7% 16 ntage % d ratio = 3.2 : 6 + 1.8				

Set - 20

Direction (102-106): Study the following pie-chart and table carefully and answer the question given below:

The pie-chart given below shows the percentage distribution of population of 6 cities. The table given below shows the ratio of males to females and the percentage of adult population in these



City	Male: Female	% Adult		
U	6:5	55%		
V	11:8	60%		
W	9:8	68%		
Х	3:4	66%		
Υ	2:1	72%		
Z	4:3	70%		
102. The number of adults in city Y is approximately what per cent of the number of males in city X? 1. 70% 2. 72% 3. 66% 4. 68% 5. 74%				
103. What is the difference the total number of males and the total number of females in city V? 1. 79000 2. 80000 3. 84000				
2. 3 1000				

- 5. 81000

 104. What is the number of females in city U
 who are Adult? 1. 1,25,000
- 2. 1,30,000 3. 1,40,000
- 5. Cannot be determined
- 105. What is the total number of male population in city Z? 1. 2,40,000 2. 2,12,000
- 2. 2,12,000 3. 2,36,000 4.2,18,000
- 106. What is the number of persons in city W
- who are not adult? 1. 152230 2. 152320
- 3. 151320

5. 2,24,000

4.76000

4. 1,28,000

4. 153220 5. 154320

Z

- - -

(102-106)

City	Population	Adults
U	20 x 28000 = 560000	55 x 5600 = 308000
v	19 x 28000 = 532000	60 x 5320 = 319200
w	17 x 28000 = 476000	68 x 4760 = 323680
x	21 x 28000 = 588000	66 x 5880 = 388080
Υ	9 x 28000 = 252000	72 x 2520 = 181440
566666666666666		

102. 2; Total number of adults in city Y = 181440

 $70 \times 3920 = 274400$

Answer:

Total number of males in city X = x 588000 = 252000

Required percentage = x 100 = 72%
103. 3; Required difference = x 532000= 84000
104. 5; Data not sufficient

14 x 28000 = 392000

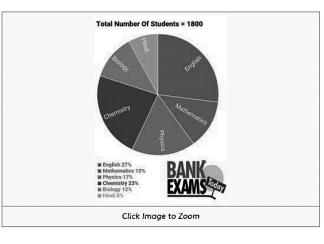
105. 5; Number of male population in city Z
= 392000 x = 2,24,000
106. 2; Number of persons in city W who are not adult

= x 476000 = 152320

Set - 21

Directions: (107-111): Study the following Pie-chart carefully and Answer the questions given below:

In school total number of students passed in different subjects were as per given pie-chart .



107. If students passed in Chemistry increased 26 and Physics students decreased 26. Find the students passed in Physics approximately what percentage in Chemistry? 1.64% 2.72% 3.76% 4.56% 5.68% 108. What is the difference between the total number of students who passed in English and Physics together and the total number of students passed in Hindi, Biology and Chemistry . After few days 20 students from English and 35 students from Biology declared failed due to malpractice in exams ? 1.36 2.72 3.33 4.56 5.42 109. Find ratio between students passed in English and Chemistry, If students passed in

Chemistry Increased 69? 1.81:63 2.91:101 3.81:85 4.14:275. 11:24 110. If the percentage of Mathematics students passed in Exam is increased by 50% and percentage of Students passed in Hindi is decreased by 25%, then what will be the total number of students passed in Mathematics and Hindi together? 1.406 2.459 3.457 4.471 5.432 111. If 2/9 th of students who passed in Physics are female, then number of male Students

```
passed in Physics is approximately what per cent
of total number of students passed in
Chemistry? 1. 58
2.61
3.73
4.53
5.51
                     Answer:
107.1
Chemistry = 18*23 = 414
After increasing 26 students = 414+26 = 440
Physics = 17*18 = 306
After decreasing 26 students = 306-26=280
percentage = 280*100/440=63.63~=64\%
108.3
English = (27*18)-20 = 486-20 = 466
Physics = 17*18 = 306
Hindi = 8*18 = 414
Chemistry = 18*23 = 414
```

Biology = 12*18 -35= 216-35= 181

```
Difference = (English + Physics) - (Hindi +
Chemistry + Biology ) ==> difference = 772-739 =
33
109.1
Students passed in English = 18*27 = 486
Students passed in Chemistry =18*23=414 after
increasing 69 in Chemistry = 441+69= 510 Ratio
between English and Chemistry = 486: 510
=81:85
110.2
Total together = 1800 (13*150/(100*100) +
8*75/(100*100)) ==> Total together = 351+108 =
```

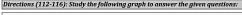
111. 1 Male students passed in Physics = 7/9 * 1800 *

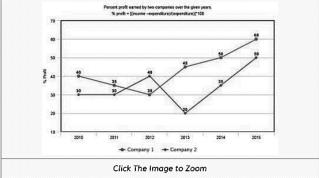
459

17/100 = 238 Students passed in Chemistry = 23*1800/100 = 414 percentage = 238/414 *100 =

57.48

Set - 22





112.If the expenditure of company 1 in 2010 was Rs. 400 crores, what was its income? a) 500

b) 520

c) 560

d) 580

e) None of these

113 .If the income of company 2 in 2014 was Rs.

300 crores, what was its expenditure? a) 222 b) 240 c) 280 d) 284 e) None of these 114 .If the incomes of two companies are equal in 2011, what was the ratio of their expenditures? a) 25:27 b) 27:26 c) 26:27 d) 30:31 e) None of these 115 .What is the percent increase in the percent profit for company 2 from year 2010 to 2012? a) 20% b) 25% c) 33.33% d) 46.67% e) None of these

```
116 .If the expenditure of both the companies
are equal in 2015, find the ratio of their income?
a) 14:15
b) 16:15
c) 15:16
d) 15:14
e) None of these
                     Answer:
112. c
40/100 = (I - 400)/400
==> Income = 560
113. a
35/100 = (300 - E)/E
E = 222.22 crore
114. c
```

35/100 = (I - E1)/E1==> I = 27E1/20 ---(i)30/100 = (I - E2)/E2==> I = 13E2/10

```
E1/E2 = 26 : 27
```

115. с

% profit in 2010 = 30%

% profit in 2012 = 40%

% increase = (10/30)*100 = 33.33%

% increase = (10/30)*1 **116. b**

Company 1 = 60/100 = (I - E)/E

==>l1 = (8/5)*E

Company 2 = 50/100 = (I -E)/E

==>12 = (3/2)*E

so ratio I1: I2 = 16:15

12 = 16:15

Set - 23

Directions~(117-121): Study~the~following~information~carefully~and~answer~the~questions~given~below~:

Name	Total Salary	Expenditure	Savings		
А	45,000	37,500			
В	38,000	29,500			
С	27,000	_	_		
D			4,200		
E		22,000			
F	32,000		5,500		
24:3 2. 23:4 3. 26:3 4. 25:3 5. 27:5		l salary and sav			
118. F spends 20% of his Expenditure on education . Find what amount he spends on Education ? 1. 5,500 2. 5,600					

3. 5,300 4.5,400 5. 5,200 119. C saves 12% of his monthly salary, and he spends 10% of expenditure on House rent. How much amount he spent on house rent? 1. 2,375 2. 2,376 3. 2,377 4. 2,378 5. 2,379 120. What is the average salary of A,B,D and F persons, If D's expenditure is 25,800? 1. 36,500 2. 36,250 3.36,750 4. 36,000 5. 36,550 121. A's salary is increased 20% and his

```
expenditure also increased 10%. Find the
difference between his new savings and present
savings?
1.5,000
2. 5,250
3.5,500
4.5,750
5. 5,550
                    Answer:
117.4
88% ----- 22,000
100% ---- ?
Total salary = 25,000
Savings = 25,000-22,000 = 3,000
Ratio = 25,000:3,000=25:3
118.3
Expenditure = 32,000 - 5,500 = 26,500 100%
26,500
20% ----
```

For Education he spends = 5,300

```
119.2
C \, salary = 27,000
C expenditure = 27,000*88/100 = 23,760 Rent =
23,760*10/100 = 2,376
120.2
A's salary = 45,000
B's salary = 38,000
D's salary = 25,800 + 4,200 = 30,000
E's salary = 32,000
Average = (45,000+38,000+30,000+32,000)/4 =
```

A's Savings = 45,000 - 37,500 = 7500

After increasing his salary become =

120*45000/100 = 54,000 Expenditure =

37,500*110/100 = 41,250

A's new savings = 54,000 - 41,250 = 12,750

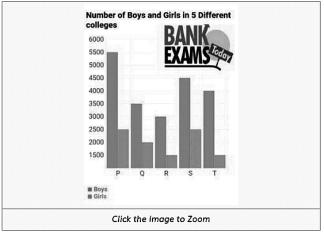
Difference = 12,750 - 7,500 = 5,250

36,250

121.2

Set - 24





122. What is respective ratio between Girls in T school and total number of students in School Q ? 1. 3:10

- 2.4:15
- 3. 5:16 4. 11:15

5. 3:11 123. Number of boys in college S forms approximately what percent of number of boys in college Q? 1.75 2.116 3.1244.1295.135 124. What is the average number of boys from all the colleges together? 1.4100 2.4000 3.3800 4.3750 5.3600 125. If 100 students increased in every school, find the ratio between Girls and boys ratio after increasing in School P? 1.5:7

2.6:7

```
3.7:9
4.4:7
Data insufficient
126. Find the ratio between total number of
girls in P, Q and R to total number of boys in R,
S and T? 1, 12:21
2.12:23
3. 12:25
4. 12:27
5. 13:25
                      Answer:
122.5
Girls in School T = 1500
Total number of students in School Q =
3500+2000=5500
```

123.4 Boys in School S = 4500

Ratio = 1500 : 5500 = 3:11

Boys in School Q = 3500

Total number of boys from all schools = 5500+3500+3000+4500+4000=20500 Average number of boys = 20500/5 = 4100 125.5

124.1

==> percentage of Boys from school S in Boys in School O = (4500*100)/3500=128.57~=129%

number of girls and boys in the number of 100 students. Data insufficient

126.2

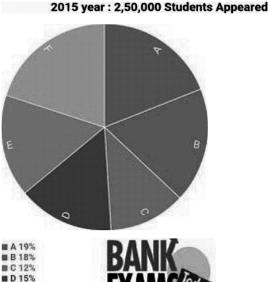
100 students increased . But here not mentioned

Total number of girls in P, Q and R = 2500+2000+1500= 6000 Total number of boys in R, S and T = 3000+4500+4000=11500 Ratio = 6000: 11500 = 12:23

Set - 25

The following pie-chart show the number of students appearing GATE Examination From

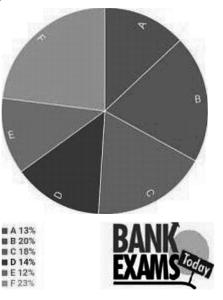
Directions (127-131): Study the following pie-charts carefully and answer the following questions



different states .

E 16% # F 20%

2016 year: 2,40,000 Students Appeared



127. Number of students appearing from B state in 2016 was , What per cent of that from F state F in 2015

1.94

2.95

3.96 4.97 5.98 128. The total number of students appearing from B & C together in 2015 is approximately egual to that from which of the following pairs of states in 2016? 1.A&F 2.C&D 3.A&C 4.D&F 5.E&B 129.If there were 30000 students appearing in the examination from Hyderabad in 2016, and 35000 students appearing from Chennai in 2016, find the percentage of students students not from the Hyderabad and Chennai in 2016. 1.70.87 2.79.56

```
3.76.09
4.72.91
5.76.85
130.What is the per cent students appearing 
from state A,C and F in 2015 , same states in
2016 ? 1.98.37
2.96.89
3 92 78
4.91.56
5 89 78
131. If number of students appearing
examination in 2014 is 20% more than students
appearing in 2015, Find the number of students
appearing examination from state B in 2014?
1.56%
2.67%
3.76%
4 Data Insufficient
5. None of the above
                         Answer:
```

127.3 No.of students appearing from B state in 2016 = 20*240000/100 = 48000 No. of students appearing from F state in 2015 =20*250000/100 = 50000 Percentage = 48000*100/50000 = 96%128.3 Students appearing from B and C in 2015 =(18+12)*250000/100 = 75000 Go through options verification check one by one You will find option C is approximately equal to 75000 129.4 Students from Hyderabad and Chennai in 2016=

Students from Hyderabad and Chennai in 2016= 30000+35000=650000 Total number of students in 2016 = 240000 Students not from Chennai and Hyderabad =

240000-65000= 175000 Percentage = 175000*100/240000 = 72.91 **130.** 1 Students appearing from A,C,and F in 2016 = (13+18+23)*240000/100= 129600 Students

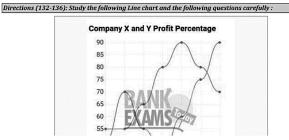
appearing from A,C and F in 2015 = (19+12+20)*250000/100 = 127500 Percentage = 127500/129600 * 100 = 98.37

12/300/129000 100 - 98.5/

131. 4

Students appearing examination is 20% more than the students appearing examination in 2015 = 300000 But F state details in 2014 not given

Set - 26





132. If the profit earned in 2011 by Company Y was Rs. 8,12,500, what was the total income of the Company in that year?

1.Rs. 12, 50, 000 2.Rs. 20, 62, 500

3.Rs. 16, 50, 000 4.Rs. 18, 25, 000

5.Rs. 17.78.000

133. If the amount invested by the two Companies in 2010 was equal, what the ratio between total income in 2010 of the Companies

X and Y respectively?

1.31:33

2.33:31

3.34:31

4.14:11

None of these

134. If the total amount invested by the two

Companies in 2014 was Rs. 27 lakhs, while the amount invested by Company Y was 50% of the amount invested by company X, what was the total profit earned by the two Companies together? 1.Rs. 21, 15 lakhs 2.Rs. 20, 70 lakhs 3.Rs. 18, 70 lakhs 4 Rs 20 15 lakhs 5. None of these 135. If the investments of Company X in 2012 and 2013 were equal. What is the difference between profit earned in two years if the income in 2013 was Rs. 24 lakhs? 1.Rs. 2, 25 lakhs 2.Rs. 3. 6 lakhs 3.Rs. 1. 8 lakhs 4.Rs. 2. 6 lakhs 5.none of these

136.If each of the Companies X and Y invested

```
Rs. 25 lakhs in 2015, what was the average
profit earned by the two companies?
1.Rs. 18 lakhs
2.Rs. 22, 5 lakhs
3.Rs. 17. 5 lakhs
4.Rs. 20 lakhs
5.none of these
                      Answer:
132.2
Let expenditure =x
65\% of x = 8,12,500
x=12,50,000
Income = Expenditure + Profit
= 12,50,000 + 8,12,500
= 20,62,500
133.3
Let the expenditure of X= expenditure of Y= a
Income of X = 170\% of a
= 1.7 \, a
Income of Y = 155\% of a
= 1.55 a
```

```
Ratio = 1.7//1.55 = 34/31
134.2
Let the amount invested by Y = x
And amount invested by X=2x
x+2x=27
x=9
Expenditure of X=2x=18
Expenditure of Y=x=9
Profit earned by X = 75\% of 18 = 13.5
Profit earned by Y = 80\% of 9 = 7.2
Total profit earned by two companies = 20.7
135.1
Let the investment of X in 2012=x
And investment of X in 2013 = x
Income of X in 2013 = 24
Income of X in 2013 = 160% of x = 1.6x [60\%]
Profit] 1.6 x=24
x = 15
profit in 2012= 45% of 15=6.75
profit in 2013= 60% of 15 = 9
Difference = 2.25
```

136.4 Investment of X in 2015 = 25

Profit of X in 2015 = 90% of 25 = 22.5 Investment of Y in 2015 = 25

Profit of Y in 2015 = 70% of 25 = 17.5 Average profit =40/2=20

Set - 27

(1) Few data are missing (indicated by --) in the table and you are expected to calculate them from the available data if required.

(2) There are in total 8 destinations (I, II, III, IV, V, VI, VII and VIII). If a car has to go from one destination to another destination it will have to

travel through in between destinations. For ex. If

car A travels from destination I to IV. it will have to travel through destinations II and III (3) Time required column depicts time required

by a car mentioned in the same row to cover the distance between destinations mentioned in the same row.

D	-	Between IV and V =162	6
E	36	Between V and VI = -	8 2/3
F	22	Between VI and VII=	6 7/11
G	42	Between VII and VIII=	4 1/3
dista 22	nce betwe	een destinations V and	i VIII ? a. 19 :
22 b. 29	. 24		
c. 33	: 38		
d. 31	: 32		
o 20	: 30		

138. Car H covered distance between

Distance between

destinations (In Km)

Between I and II = 188

Between II and III = 254

Between III and IV = 228

Name of

the Car

A

В

c

Speed of the

Car (In Kmph)

77

_

--

Time Required

(In hours)

5 12/23

5 1/3

destination IV and V at a speed of 18kmph and the distance between destination V and VI at a speed of 60 kmph. What was its average speed in the journey? (approx inkmph) a. 39 b. 58 c. 32 d. 29 e. 27 139. Car A started from Destination I towards Destination V at 5 00 am. Car D started from Destination V towards Destination I at the same time At what time will they meet? a.11 am b.1 pm c.1.45 pm d.10.30 am e.12.30 am 140. How much time will Car B take to cover the distance between destinations I and VIII? (in hours) a. 35

```
b. 37
c. 26
d. 32
e. 28
141. If H's speed 10 more than than A.how
many hours early than to reach a destination
from I to VIII( approximately)?
a .4 hrs
b. 2 hrs
c. 5 hrs
d. 1 hrs
e. 6 hrs
                      Answer:
137. c distance between destinations IV and
V = 162
distance between destinations VII and VIII=182
ratio is 162 : 182 è81:91
138. a t = distance b\w IV and V/speed = 162/18=9
hrs
t= distance b\w V and VI/speed
```

```
=312/60=5 1/5 hrs
Avg speed= total dis/total time
=474/(9+51/5)
=38.85
Approximately 39 kmph
139. b t=( total distance I to V) /(sum of speeds
of A&D) total dis=(188+254+228+162)=832 km
D 's speed=162/6=27 kmph
total speeds=77+27=104 kmph
time taken by they meet=832/104= 8 hrs
that means they at 1 pm (5 \text{ am } +8 \text{ hrs}=1 \text{pm})
140.d Total distance b\w
=188+254+228+162+312+146+182=1472 \text{ km}
B's speed=254/ 5 12/23
=254 \times 23/127
=46 kmph
Time taken by B to travel I to VIII=1472/46=32
hrs
141. b Total distance I to VIII =1472
```

19 H's speed =77+10=87 Time taken by to reach I to VIII=1472/87=16.88 =

Time taken by to reach I to VIII= 1472/77=19.11=

17 So H reach destination 2 hrs early than A

Set - 28

2-146): Study the following bar graph and table carefully to answer the questions given

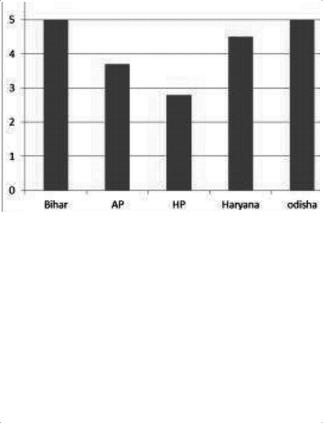
(approx)

5):

The following bar graph shows data related to population of different states(in lakhs) in the vear 1992

272pt.word23

population





The following table shows the ratio b\w male, female and literacy, illiterate and also graduates and under graduates.

Different states Male and female Literacy and illiterate undergraduates

Bihar 3:2 1:4 4:7

AP 4:6 4:1 6:7

AP	4:6	4 :1	6:7
HP	3 : 4	2 :1	3:2
Haryana	5 : 4	3:2	7:8
Odisha	2:3	2:3	4:5
Assam	2:1	7:2	6:7
			1
			_

142. If in the year 1993 there was an increase of 10% population of AP. and 12% of Bihar compared to the previous year, than what was the ratio of the population of AP. to Bihar?

a. 521:540
b. 405:530

c. 408:505 d. 407:560 e. None 143. What was the approximate percentage of women of Andhra Pradesh to the women of HP? a.90% b.110%

e.95%

144. if 70% of total no of literate population in

Assam are graduate what is the total no of

under graduates in the Assam in the year 1992?
a. 65300
b. 70000
c. 62021

145. In Haryana, if 70% of the females are literate and 75% of the males are literate, what is the total number of illiterates in the state?

a.12,2500

d. 82120 e. None

c.120% d.126% d. 81,000 e. None 146. What is the ratio of literates in Assam to the literates in Bihar? a. 2:5 b. 3:5 c. 7:15 d. 2:3 e. None Answer: 142. The year 1993 there was an increase of 10% population of AP. and 12% of Bihar The ratio is = 370000* 110/100: 500000*112/100 =è 407 : 560 143. Total no of woman in AP is =370000*6/10=

b. 85,000 c. 84,000 222000 Total no of woman in HP is =280000*4/7=160000 Required percentage = (222000/160000)*100=~126

144

145.

The total no of literate under graduates population in Assam= 300000*(7/90*(30/100) =è 70000

if 70% of the females are literate and 75% of the males are literate female illiterate Haryana= (450000*4/9)*(30/100)
=è60000

male illiterate Haryana= (450000*5/9)*(25/100)

=è62500 Total no of illiterate population in Haryana=122500

146. the ratio of literates in Assam to the literates in

Bihar =è 300000*7/9:500000*1/5 =è 21:45 =è 7:15

Dena Bank

Indian

Bank Syndicate 288(7:5)

D(5:3)

465(17:14)

Set - 29

Directions (147-151): The given table gave information about number of employees in different banks, and ratio between Men (M) and Women (W) employees.

Andhra	225 (7.6)	120(4.5)	05(0.0)	A (E-2)	500
Bank	Clerks (M:W)	PO (M:W)	Mangers (M:W)	Regional Managers (M:W)	Total Employees

325 (7:6) 126(4:5) 85(8:9) A(5:3) 568 Bank

Canara

427(5:2) B(11:16) 76(8:11) 45(3:2) 683 Bank

545

C(6:7)

87(13:16)

E(11:15)

38(12:7)

54(13:5)

48(7:5)

657

735

128(7:9)

156(5:8)

144(7:9)

Bank

147. Find total women employees in Dena Bank ? 1.245

2.235 3.247 4.451 5.256 148. What is approximate percentage of the Men PO's in Canara Bank to Total employees in Canara Bank ? 1.8% 2.9% 3.7% 4.5% 5.6% 149. Find total Men employees working as Clerk in all banks ? 1.1234 2.1256 3.2134 4.2345 5.1128 150. Find Sum of E,A and B?

```
1.249
2.245
3.234
4 223
5.238
151. What approximate percentage E and C in
A.B and C ? 1.32%
2.30%
3.29%
4.39%
5.37%
                    Answer:
147.3
A = 568-536=32
Total women employees =
(288*5/12)+(128*8/16)+(91*7/13)+(38*7/19)
=247
148.1
C = 683-548=135
Men PO = 135*11/27 = 55
```

```
Percentage = 55*100/683 = 8.0527 \sim = 8\%
149.5
D = 657-297=360
Total Men clerks in all bank = (325*
7/13)+(427*5/7)+(288*7/12)+(360*5/8)+(465*1
7/31) = 1128
150.2
E = 78
A = 32
B = 135
Sum = 245
151.1
A = 32
B = 135
```

C = 91 D = 360 E = 78 C+E = 169

A+B+D =527 Percentage = 169*100/527 = 32.068~=32%

Set - 30

Directions (152-156): Study the following Table and Answers carefully:

Total number of college seats: 1400

College	No.01 Graduates	No.01 Fost Graduates
w	360	30
х	210	72
Υ	420	92
Z	120	96
Total	1110	290

Sex	No.of Graduates	No.of Post Graduates
Male	820	200
Female	290	90

Subject	No.of Graduates	No.of Post Graduates				
Chemistry	620	128				
Physics	82	46				
Biology	134	70				
Zoology	94	46				
City	No.of Graduates	No.of Post Graduates				
Kolkata	580	112				
Hyderabad	84	52				
Bangalore	162	54				
Chennai	104	72				
152. What	is the percentage	e of Biology seats in				
Post Gradu	ation ? 1.20.13%					
2.26.46%						
3.25.23%						
4.26.12%	4.26.12%					
5.24.13%						
153 .What is percentage of Hyderabad students						

in the total seats ? 1.9.71% 2.15% 3.16% 4.25% 5.27% 154. If 20 males are replaced by 20 females in the Graduates, What would be the ratio of males to females in the total College seats? 1.28:7 2.27:6 3.80:31 4.28:3 5.50:11 155. Out of Total students of college Z in total seats, What is the percentage of students Post Graduates ? 1.33.33% 2.44.44% 3.66.66%

4.55.55%

156. What is the difference between the number of seats in College W and that of College X ? 1.1

2.108 3.186 4.54

5.None of these

Answer:
152.5

5.77.77%

34

Percentage = (70*100)/290 = 24.13%

153. 1Total students from Hyderabad = 84+52 = 136
Percentage = (136*100)/1400 = 9.71

154. 3Males = 820

After replacing = 820-20=800 Females = 290 After replacing = 290+20=310 Ratio = 800:310 =80:31

Total seats in Z college = 216

155. 2

Post Graduate seats in Z college= 96 Percentage = (96*100)/216 = 44.44%

156.3

Total seats in W college = 360+30=390 Total seats in X college = 210+72 = 282 Difference = 390-282 = 108

Set - 31

300 31

Percentage of marks obtained by 6 students in 6 Subjects .

Directions (157-161): Study the give table carefully to answer the following questions.

Subject / Student	of 150)	of 100)	(Out of 50)	(Out of 100)	(Out of 125)	of 50)
Α	85	62	72	68	70	70
В	65	68	66	69	80	80
С	70	72	68	78	60	66
D	80	78	76	82	90	58
E	90	80	72	66	70	76
F	60	74	62	54	60	64
	hat is the av	erage	marks	obtai	ned by	all

2. 32.3

Maths

Hindi

Telugu English Physics

3.34 4.36 5.33.6 158. What is the total marks obtained by B in all subjects together? 1.407.5 2.390.5 3.508.5 4.408.75 5.404.5 159. What is F's overall percentage of marks in all subjects together? 1.64.2% 2.60% 3.65.2% 4.62.33% 5.61.91%

160. If, to pass the examination, the minimum marks required in Chemistry is 120 and Physics is 95, then how many students will pass in both the subjects? 1.3 2.1 3.4 4.2 5.5

161. Who among the following scored the highest marks in all subjects together?

 B 2. E

3. D

4. F

5. A

Answer:

157.1

Total percentage of marks obtained by all students in Hindi = 70+80+66+58+76+64 = 414 Total Marks obtained by all students in Hindi = (50*414)/100 = 207 Average = 207/6 = 34.5

Marks obtained by B in all subjects together = (65*150)/100 + (68*100)/100 + (66*50)/100 + (69*100)/100 + (80*125)/100 + (80*50)/100 =

158.1

= 61.91%

407.5 159.5

F's overall percentage of marks = (356*100)/575

160.2Pass percentage in chemistry = (120*100)/150 = 80% Pass percentage in Physics = (95*100)/125

= 76% From the above table Only D could pass in both subjects .

161.3Calculate All students scores , you will find D got the highest marks in all subjects together .

Directions (162-166): Study the following table carefully and answer the given questions

ı		
ı		
ı		
ı		

Cost Price

28.000

32,000

Sony Mobile ? 1.36,000 and 12.5%

Mobile

LG

HTC

Sony

Samsung	35,000			3,500
Apple	53,000		14%	
Micromax		22,000		

33,000

Selling Price

Profit

4,000

% of Profit

10%

162. What is the selling price and % of Profit of

2.36.00 and 15% 3.36,000 and 18% 4.36,000 and 20% 5.36,000 and 23% 163. What is the % of Profit Micromax, If Cost Price of Micromax is 3/5 of Cost Price of HTC mobile ? 1.33 1/3% 2.26 4/9% 3.22 2/9% 4.24 5/9% 5.25 7/9% 164. What is the selling price and % of profit of LG mobile?. If profit is 500 more than the profit of Samsung mobile. 1.32,000 and 14 1/7% 2.34,000 and 14 4/7% 3.32,000 and 15 2/7% 4.34,000 and 17 5/7% 5.32,000 and 14 2/7%

```
165. What is the profit earned on Apple mobile?
1.7360
2.7450
3.7420
4.7560
5.7620
166. What is the ratio between Cost Price and
Selling price of Samsung? 1.14:15
2.10:13
3.10:14
4.14:15
```

Answer: 162.1

5.10:11

163.3

Selling price = 32,000+4000=36,000 % of Profit = 4000/36000 = 12.5%

HTC mobile Selling Price = 33,000 HTC Mobile % Of Profit = 10%

```
33,000 ----- 110%
means
             ? ----- 100% (CP)
Cost Price of HTC = 30,000
Micromax cost price = 3/5 *30,000 = 18,000
Selling price = 22,000
profit = 4,000
% of profit = (4000/18,000)*100 = 22 2/9%
164.5
Profit on Samsung mobile =3,500
from that profit on LG mobile = 3500+500=4000
Selling Price of LG mobile = 32,000
% of profit on LG = (4000/28,000)*100 = 14
2/7%
165.3
Cost Price = 53.000
% of profit = 14%
53,000 ----- 100%
  -----
               114%
Selling price = 60,420
```

profit = 60,420-53,000=7420

Cost Price = 35,000

166.5

Selling Price = 35,000+3500=38500

Set - 33

Ratio = 35000 : 38500 = 10:11

Directions (167-171): Refer to the following data to answer the questions that follow:

The result of an exam is given below:

Out of 2000 students who appeared

(i) 1316 failed in Telugu (ii) 332 failed in Telugu and Punjabi

(iii) 744 failed in Punjabi, 868 failed in Telugu

(iii) 744 failed in Punjabi, 868 failed in and Bengali

(iv) 1180 failed in Bengali, 252 failed in Bengali and Punjabi

167. The number of students who failed in all the three subjects is 1) 356
2) 146

3) 212

4) 252 168. The number of students who failed in Bengali but not in Punjabi is 1) 928 2) 784 3) 774 4) 944 169. The number of students who failed in Telugu but not in Bengali is 1) 448 2) 896 3) 1512 4) 928 170. The number of students who failed in Punjabi but not in Telugu is 1) 318 2) 198 3) 213 4) 412 171. The number of students who failed in Telugu or Bengali but not in Punjabi is

Answer:

167. 3

number of students who failed in all the three subjects is
= 2000-1316-744-1180+868+252+332 =212

168. 1

number of students who failed in Bengali but

not in Punjabi is = 1180-252=928

in Bengali is = 1316-868=448

1) 1234 2) 1432 3) 1256

169.1

170. 4 number of students who failed in Punjabi but not in Telugu is =744-332=412

number of students who failed in Telugu but not

number of students who failed in Telugu or Bengali but not in Punjabi is = 2000-744=1256

171.3

Set - 34

Directions (172-176): This question is based on the data given below. Study it carefully and answer the question.

There are two trains. Krishna Express and

Godavari Express . Both trains have four different types of coaches viz. general coaches, sleeper coaches, first class coaches. In Krishna Express, there are total 1000 passengers.

Godavari Express has 20% more passengers

than Krishna Express.

27% of the passengers of Krishna Express are in general coaches. 17.5% of the total number of

passengers of Krishna Express are in AC coaches. 33.5% of the passengers of Krishna Express are in sleeper class coaches. Remaining passengers of Krishna Express are in first class coaches. Total Number of passengers in AC coaches in both the trains together is 410. 33.75% of the

number of passengers of Godavari Express is in sleeper class coaches, 125/6 % of the total passengers of Godavari Express are in first class coaches.Remaining passengers of Godavari Express are in general class coaches.

172. What is the ratio of the number of

passengers in first class coaches of Krishna Express to the number of passengers in sleeper class coaches of Godavari Express?

1.13 : 7 2.7 : 13

3.32 : 39 4.44:81

5.None
173. What is the total number of passengers in
the general coaches of Krishna Express and the
AC coaches of Godavari Express together?

1.449 2.495 3.505 4 445 5.None 174. What is the difference between the number of passengers in the AC coaches of Krishna Express and total number of passengers in sleeper class coaches and first class coaches together of Godavari Express ? 1.478 2.480 3.487 4.479 5.None 175. If cost of per ticket of first class coach ticket is Rs.550, what total amount will be generated from first class coaches of Krishna Express? 1.120000 2.122000

5.none

176. If cost of per ticket of first class coach ticket is Rs.450 and AC class coach ticket is Rs.950, what total amount will be generated from First and AC class coaches of Godavari

Express? 1.350000 2.375750 3.335750

4.345000 5.335870

Answer:
(172-176)
Krishna Express:-

Krishna Express total passengers = 1000 27% of total passengers General Class Coach =

(27*1000)/100=270

3.121000 4.124000 (33.5*1000)/100=335 Remaining are First Class = 1000-(175+335+270)=220 Godavari Express:-Total passengers 20% more than Krishna Express = (120*1000)/100 =1200 Total Number of passengers in AC coaches in both the trains together is 410 AC passengers in Godavari = 410- AC passengers in Krishna=410-175=235 33.75% of total passengers Sleeper Class Coach = (33.75*1200)/100=405 (125/6)% of total passengers First Class = ((125/6)*1200)/100=250

17.5% of total passengers AC Class Coach = (1

33.5% of total passengers Sleeper Class Coach =

7.5*1000)/100=175

172. 4

ratio of the number of passengers in first class

Remaining passengers in General =

1200-(235+250+405)=310

coaches of Krishna Express to the number of passengers in sleeper class coaches of Godavari Express = 220 : 405=44:81

173. 3

total number of passengers in the general coaches of Krishna Express and the AC coaches of Godavari Express together = 270+235=505

difference between the number of passengers in

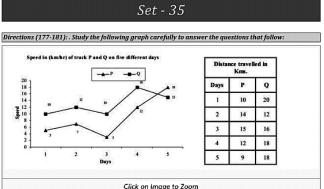
the AC coaches of Krishna Express and total number of passengers in sleeper class coaches and first class coaches together of Godavari Express =(405+250)175=480

total amount will be generated from first class coaches of Krishna Express = 550*220=121000

total amount will be generated from First and

AC class coaches of Godavari

Express=(450*250)+(950*235)=335750



177. How much time did P take to complete his journey on day 5?

- 1) 1 hr.
- 2) 30 min.
- 3) 2 hrs.
- 4) 20 min.
- 5) 3 hrs.

178. What was the time taken by Q on day 3? 1) 2 hrs. 2) 30 min. 3) 1 hr. 36 min. 4) 2 hrs. 45 min. 5) 3 hrs. 179. What was the average distance travelled by P in all 5 days? 1) 10 km. 2) 11 km. 3) 15 km. 4) 12 km. 5) 20 km. 180. What was the average distance travelled

by P and Q on Day 4? 1) 12 km

2) 18 km
 3) 30 km
 4) 15 km
 5) 20 km

181. What was the difference between time taken by Q on day 3 and that of P on day 5? 1) 30 min.

2) 1 hr.
 3) 1 hr. 6 min.

4) 36 min

Answer : (177-181):

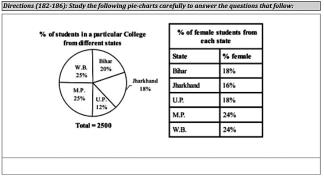
Days	Speed (Km/hr)		Distance (km.)		Time (hr.)	
	P	Q	P	Q	P	Q
1	5	10	10	20	2	2
2	7	12	14	12	2	1
:3	3	10	15	16	5	1 hr 36 min.
4	12	18	12	18	1	1
.5	18	15	9	18	30 min.	1 hr. 12

min.

177. 2 **178. 3**

- 179. 4 180. 4
- 181.3

Set - 36



182. What is the total number of boys studying from Bihar and Jharkhand together? 1) 780
2) 680

- **3)** 788
- **4)** 980
- **5)** 300

- 183. What is the difference between number of girls from Bihar and that from U.P.? 1) 18 2) 36 3) 10 4) 15 **5)** 40
- 184. Number of boys from Jharkhand is what percent more than girls from U.P.? 1) 60% 2) 600%

3) 50%

- 4) 500% **5)** 200%
- 185. Number of boys from M.P. is approximately what percent more than girls from West Bengal? 1) 220%
- 2) 217%
- 3) 210% 4) 221%

5) 200% 186. What's the average number of girls in university from all the states together is? (approximate value) 1) 100

Answer:

- 2) 106
- 3) 103
- 4) 110
- **5)** 99

(182-186):

	V		
Jhk.	450	378	
U.P.	300	246	
M.P.	625	475	
W.B.	625	475	
	Total	1984	Ī

No. o Students

500

Boys

410

Girls

Set - 37

Directions (187 -191): Go through the data set given below and solve the questions based on it.

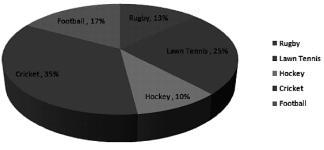
State

182. 3 183. 2 184. 2 185. 2 186. 3 Bihar

The percentage wise break up of total players who play five different sports is shown in following pie chart. Total Number of Players =

4200
Percentage of Players who play different

sports

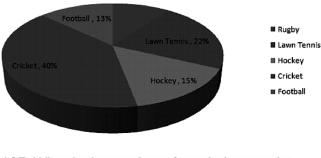


Female players is equal to 2000, out of 4200 players.

Break up of female players playing these five sports is shown in following pie chart.

Percentage of Female Players who play different sports

Rugby, 10%



- 187. What is the number of total players who play football and rugby together? a) 1080 b) 1160
- c) 1260
- d) 1210
- e) None of The Above
- 188. What is the difference between the number of the female players who play lawn tennis and the number of male players who play rugby?

 a) 84
- b) 94c) 64

e) None of The Above 189. What is the respective ratio of the number of female players who play cricket and number of male players who play hockey? a) 20 : 7 b) 4:21 c) 20:3d) 3:20 e) None of The Above 190. What is the total number of male players who play football, cricket and lawn tennis together? a) 1720 b) 1734 c) 1700 d) 1834 e) None of The Above 191. Number of male players who play rugby is approximately what percentage of the total

d) 104

```
number of players who play lawn tennis?
a) 23
b) 33
c) 43
d) 53
e) None of The Above
                       Answer:
187 (Option C)
 Average number
of players who play Football
and Rugby = [(17 + 13) \% \text{ of } 4200]
 =4200 \times \frac{30}{100} = 1260
188 (Option B)
Number
```

of Male players who play Rugby = 4200 × $\frac{13}{100}$ = 546 Number of Female players who play Rugby = 2000 × $\frac{10}{100}$ = 200 Hence, Number

of Male players who play Rugby = 546 - 200

Lawn Tennis =
$$2000 \times \frac{22}{100}$$
 = 440 Hence,
Required Difference = 440 - 346 = 94
189. (Option C)
Number of Female Cricketers = $2000 \times \frac{40}{100}$
= 800 Number of Male Hockey players =

= 346 Number of Female players who play

 $4200 \times \frac{10}{100} - 2000 \times \frac{15}{100}$ = 420 - 300 = 120

Number of Male players who play Football, Cricket and Lawn Tennis = (17 + 35 + 25)% of 4200 – (13 + 40 + 22)% of 2000

$$= 4200 \times \frac{77}{100} - 2000 \times \frac{75}{100} = 3234 - 1500 = 1734$$

191 (Option B)

Number of Male players who play Rugby = $4200 \times \frac{13}{100}$ - 200 = 346 Number of Players who play Lawn Tennis = $4200 \times \frac{25}{100}$ = 1050

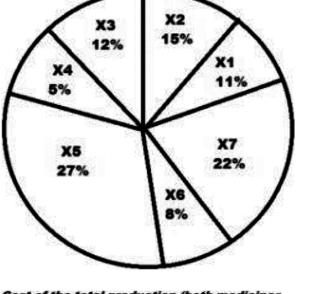
Hence Required Percentage = $\frac{346}{1050} \times 100 = 33$

Directions (192-198): Two types of medicines A

Set - 38

and B are manufactured by seven different companies X1, X2, X3, X4, X5, X6 and X7. The production of each company (inclusive of both medicines A and B) is expressed as a percentage of total production and represented in the pie-chart given below. This pie-chart is followed by a table which shows the ratio in which each company produces the two medicines and also the percent profit that each company earns in selling medicines A and B. Study the given information and answer the questions that follow.

Percentage of the total production produced by the seven companies



Cost of the total production (both medicines together) by seven companies = 75 crores

Ratio of production between medicines A and B

and the percent profit earned for the two medicines.

			EAR	NED
	Medicine A	Medicine B	Medicine A	Medicine B
X1	3	2	32	35
X2	2	3	25	20
Х3	1	2	30	24
X4	1	4	35	25
X5	5	3	28	30
X6	3	5	15	25
Х7	4	1	20	22

RATIO OF PRODUCTION

PERCENT PROFIT

192) Find the ratio of cost of production of medicine A by Company X2 to that by Company

d)3:5 e) None of these

X6? a) 1:2 b) 2:3 c) 2:1

COMPANY

193) The total cost of production of medicine A by company X2 and medicine B by X1? a) Rs. 6.6 crores

b) Rs. 3.35 crores c) Rs. 8.12 crores d) Rs. 7.8 crores e) None of these 194) What is the total cost of production of medicine B by Companies X3 and X4 together? a) Rs. 7.45 crores b) Rs. 9 crores c) Rs. 8.50 crores d) Rs. 11 crores e) None of these 195) The cost of production of both medicines together by Company X5 is equal to the total cost of production of both medicines together by which of the two companies? a) X1 and X3 b) X6 and X7 c) X4 and X7 d) X2 and X6 e) None of these

- 196) Find the amount of profit earned by
 Company X6 on medicine B. a) Rs.9.375 crores
 b) Rs. 13.45 crores
 c) Rs. 75.15 crores
 d) Rs. 93.75 crores
 e) None of these

 197) What is the total profit earned by Company
 X3 for medicines A and B together? a) Rs. 2.34
 crores
- c) Rs. 96.4 lakhs
 d) Rs. 1.44 crores
 e) None of these
 198) The profit earned by Company X5 on

production of medicine A added to the profit earned by Company X7 on production of

medicine B is approximately

b) Rs. 4.86 crores

a) Rs. 9.18 croresb) Rs. 5.19 croresc) Rs. 6.71 crores

e) None of these Answer: **192)** Cost of production (A + B) by X2 = (15% of

d) Rs. 4.27 crores

75) crores Cost of production of medicine A by X2 = 1 (2/5)of (15% of 75) crores = 4.5 crores

Similarly, cost of production of medicine A by X6 = (3/8 of (8% of 75) crores = 2.25 crores Required Ratio = 4.5 / 2.25 = 2:1

193) Cost of production of medicine A by company X2 = [2/5 of (15% of 75)] crores = 4.5

crores Cost of production of medicine B by company X1 = [2/5 of (11% of 75)] crores = 3.3 crores => Total cost = (4.5 + 3.3) crores = 7.8 crores

194) Cost of production of medicine B by company X3 = [2/3 of (12% of 75)] crores = 6crores Cost of production of medicine B by company X4

```
= [4/5 of (5% of 75)] crores = 3 crores
=> Total cost = (6 + 3) crores = 9 crores
195) It is clear from the pie chart that the cost of
production of both the medicines together by
company X5 = (27\% \text{ of } 75) \text{ crores}
Similarly, we have (from the pie chart) that the
production of both the medicines together by
combinations of companies is as follows:
(i) (X1 + X3) = [(11\% + 12\%) \text{ of } 75] \text{ crores} = (23\%)
of 75) crores
(ii) (X6 + X7) = [(8\% + 22\%) \text{ of } 75] \text{ crores} = (30\%)
of 75) crores
(iii) (X4 + X7) = [(15\% + 22\%) \text{ of } 75] \text{ crores} = (27\%)
```

(iv) (X2 + X6) = [(15% + 8%) of 75] crores = (23% of 75) crores

196) Cost of production of medicine B by company X6 = [5/8 of (8% of 75)] crores = 15/4 crores

which is same as that for company X5.

of 75) crores

93.75 lakhs
 197) Profit earned by Company X3 for medicine
 A = {30% of [1/3 of (12% of 75)]} crores = 0.90

Now, Profit earned = 25% of cost of production

=(25% of 15/4) crores

+ 1.44) crores = 2.34 crores

crores Profit earned by Company X3 for medicine B = {24% of [2/3 of (12% of 75)]} crores = 1.44 crores Total profit earned by Company X3 = (0.90

198) Profit earned by Company X5 for medicine A = [28% of {5/8 of (27% of 75}] crores = 3.54 crores

crores
Profit earned by Company X7 for medicine B
= [22% of { 1/5 of (22% of 75)}] crores = 0.73

crores Total profit = (3.54 + 0.73) crores = 4.27 crores

Set - 39

Directions (199-203): Study the following table chart carefully to answer the question given below:

The table graph shows the monetary policy

statement issued by the RBI in different quarters.

0-2

6.25%

5.25%

4.00%

23.00%

9.75%

9.75%

199. The difference between the average of the rates of the sixth quarter and that of the third

O-3

7.25%

6.25%

4.50%

22.50%

8.25%

8.25%

0-4

7.75%

6.75%

4.75%

23.50%

8.75%

8.75%

O-5

7.75%

6.75%

4.25%

22.00%

8.25%

8.25%

0-6

8.50%

7.50%

4.50%

23.50%

9.50%

9.50%

0-1

7.50%

6.50%

4.25%

22.50%

9.50%

9.50%

Rate Repo Rate

CRR

SLR

MSF

Bank Rate

b) 15.50c) 15.75

Reverse Repo Rate

•	
quarter is a) 0.25	
b) 0.50	
c) 0.75	
d) 1.00	
e) None of these	

200. What is the sum of the average of MSF and

that of Reverse Repo Rate? a) 14.50

d) 15.25 e) None of these 201. The ratio of the sum of the Repo Rates in all the given quarters to that of the Reverse Repo Rates in all the given guarters is a) 17:13 b) 17:15 c) 15:13 d) 13:15 e) None of these 202. The sum of the Repo Rates in all guarters is what per cent (approx) of the sum of SLR in all quarters? a) 32.85 b) 32.25 c) 34.35 d) 33.75 e) None of these 203. The average of all the rates in the fourth quarters is what per cent (approx) of the

```
average of all the rates of the first quarters?
a) 100.04
b) 100.48
c) 100.84
d) 100.44
e) None of these
                     Answer:
199. d
Solution: Average of O-6:
(8.5+7.5+4.5+23.5+9.5+9.5)/6=63/6=10.5
Average of Q-3:
(7.25+6.25+4.5+22.5+8.25+8.25)/6 = 57/6=9.50
Required Difference = 10.50 - 9.50 = 1.00
200. b
Solution: Average of MSF:
(9.5+9.75+8.25+8.75+8.25+9.50)/6=54/6=9
Average of Reverse Repo Rate:
(6.50+5.25+6.25+6.75+6.75)/6= 39/6=6.50
Required Sum = 9+6.50=15.50
201. c
```

(7.50+6.25+7.25+7.75+7.75+8.5) =45.00 Sum of Reverse Repo Rate:

(6.50+5.25+6.25+6.75+6.75+7.5) =39.00 Required Ratio = 45.00:39.00= 45:39= 15:13

202. a

Solution: Sum of Repo Rates:

Solution: Sum of Repo Rate:

(7.50+6.25+7.25+7.75+7.75+8.5) =45.00 Sum of SLR: (22.50+23+22.50+23.50+22+23.50) =137.00 Required %= (45.00/137.00) x100= 32.846=32.85 (approx)

203. с

Solution: Sum of Rates in Q-4:

(7.75+6.75+4.75+23.50+8.75+8.75) =60.25 Sum of Rates in Q-1: (7.50+6.50+4.25+22.50+9.50+9.50)

=59.75 Required %= (60.25/59.75) x100=

100.836=100.84 (approx)

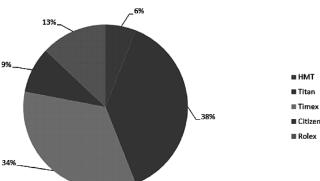
the data sets given below and solve the questions based on it. Following data sets given below present the statistics related to the Indian watch industry. There are five companies and their respective market share of the year 2010 is given in the pie chart given below.

Chart 1

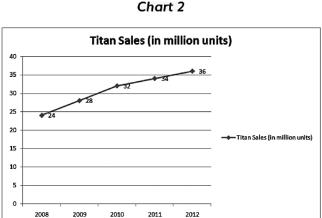
Directions (204-207): for Questions - Go through

.marc 1

Market Share in Sales Value (in 2010)



Following line chart presents the Titan Sales volume (in million units) for the years 2008 to 2012. All the values are even numbers.



Following bar chart presents the average selling price (in Rs.) of these companies in the year 2010:

Chart 3



(Assume there is no export or import)

204. For how many years, is it possible to calculate the size of domestic watch market (in Rs.)? a) 0

d) 5 e) None of The Above

b) 1c) 2

- 205 Which company has the second
- 205. Which company has the second lowest

```
sales (in Rs. terms) in the year 2010? a) Citizen
b) Rolex
c) HMT
d) Timex
e) None of The Above
206. Which year saw the lowest growth rate in
number of unit sold over the previous year for
Titan? a) 2009
b) 2010
c) 2011
d) 2012
e) None of The Above
207. What is the size of the domestic market in
the vear 2010 (in Rs.)? a) Rs. 757 crores
b) Rs. 7578 crores
c) Rs. 75789 crores

 d) Can't be Determined

e) None of The Above
204. (Option B)
```

Sales Value = Sales Volume × Average Price per Unit Total Market Size :-= Sales Value of Company X /Market Share (in %) of company $X \times 100$ Question is asking for size of domestic market (in Rs.). Out of three different data sets given in the question (a pie chart, a line chart and a bar chart), we have Rupees value in only one data set – Bar chart. In pie chart and line chart, we do not have any information in Rupees Terms. So to answer any question in Rupees terms, we need to use Chart 3 - Bar Chart. How do we calculate the size of domestic watch market: Chart 1 provides the market share in sales volume in 2010. Chart 2 provides the sales volume of Titan from 2008 to 2012. Using chart 2, Sales volume of Titan in 2010 = 32million units and using chart 3, average selling price = Rs. 900/watch. So, total market value for Titan in 2010 = 32 million units \times Rs. 900/watch = Rs. X (Assume) [we are not required to calculate possibility of market size calculation].

Now using chart I, market share of Titan is

known = 38% = Rs. X. Using this, we can

calculate 100% = Total market size of domestic

watch market.

Hence it is possible to calculate only for the year

this value as question is only asking for the

2010. We do not have Average Selling Price of Titan for the year other than 2010. So we can't calculate the domestic market size for any year other than 2010. Hence option B is the correct answer.

206. (Option D)

205. (Option B)

Now this is no brainer. You just have to calculate the percentage growth in the number of units sold of Titan.

2012 saw the minimum growth rate = 4.6%.

207. (Option B)

IOH D

Hence, option D is the answer.

million units × Rs. 900/watch = Rs. 28800 million Titan has a market share of 38% in 2010. Hence 38% = Rs. 28800 million

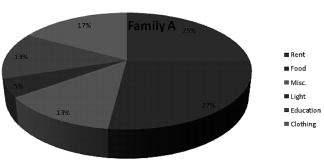
So, total market value of Titan in 2010 = 32

100% = Rs. 75789.47 million = Rs. 7578.9 crores Hence, option B is the answer.

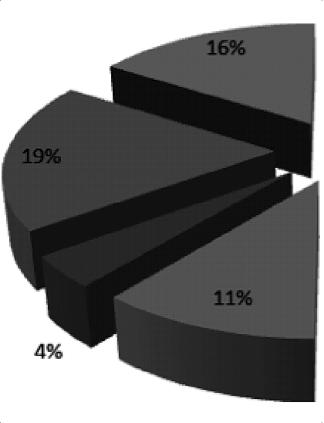
Set - 41

Directions (208-213): Refer to the following pie charts and solve the questions based on it.

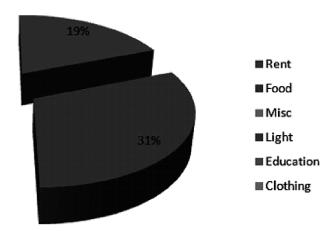
Using the data from Answer 1,



Total Expenses = Rs. 48, 000



Family B



Total Expenses = Rs. 72,000

208. Both the families decide to double the total expenditure keeping the pattern of spending the same as given above. What will be the new ratio of expenditure on food between family A and family B? a) 18:31

b) 31:27 c) 2 : 3d) 3:2 e) None of The Above 209. If the total expenses of family B increases three - fold, keeping the expenses on education the same as given above, what will be the expense on education? a) 6.33% b) 57% c) 19% d) 18% e) None of The Above 210. What will be the expenses on light by family A, as a percentage of expense on light by family B? a) 120% b) 83.33% c) 62.5%

d) 66.66%

211. If family A and family B decide to combine their expenses, then which one of the following heads will be responsible for the highest expenses?

a) Rent

e) None of The Above

b) Miscellaneous

c) Food

- d) Education
 e) None of The Above

 212. In the above question, how many heads will have a lower percentage share in the combined
- total expenses of both the families than the percentage share of family B under the same head? a) 1
 b) 2
 c) 3
 d) 4
 e) None of The Above

family B more than the expenses of family A? a)
Less than 3
b) More than 3
c) Equal to 3

d) Can't be Determined e) None of The Above

Answer:

208. (Option A)

If the percentage increase in the expenditure of

both the families, is the same then the ratio will be the same.

209. (Option A)
The total consumption has become 3 times more keeping the expenses on education the same.
Honce the percentage consumption on education

Reeping the expenses on education the same.

Hence, the percentage consumption on education will become 1/3rd of the person

210. (Option B)

211. (Option C)By visual inspection we can see that option C is

212. (Option B)

the correct answer

ם ווטו

It should be understood that the final percentage of expenditure will always be in

between the percentage of family A and family B (it is true of any mixture that the percentage

composition of the mixture will be always in between the percentage compositions of the components).

213. (Option B)By visual inspection we can see the correct

answer is option B.

Set - 42

Directions (214-218):

Management college consists of 7200 students.

The ratio of boys to girls is 7:5, respectively.

All the students are enrolled in six different

specialization viz., MBA (Finance), MBA (IT), MBA (HR), MBA (Operations), MBA (Marketing) and

(HR), MBA (Operations), MBA (Marketing) and MBA (Entrepreneur).

(Marketing). 16% of the girls are in MBA (IT). 18% boys are in MBA (HR). Girls in MBA (Entrepreneur) are 30% of the girls in MBA (IT). 15% of boys are in MBA (Finance). Boys in MBA (IT) is 50% of the girls in the same. 15% of the girls are in MBA (Operations). The ratio of the boys to girls in MBA (Entrepreneur) is 3:1 respectively. 24% of the total numbers of students are in MBA (Finance). The ratio of boys to girls in MBA (Operations) is 12:5 respectively.

22% of the total students are in MBA

- 214) What is the total number of students enrolled in MBA (HR)?
- ь) 1530

a) 1062

c) 1584
d) 1728
e) 1800
215) Number of girls enrolled in MBA (Finance) forms approximately, what per cent of total number of students in college?
a) 7%
b) 13%
c) 15%
d) 22%
e) 24% 216) What is the total number of girls enrolled in MBA (Marketing)? a) 144
b) 306

```
c) 365
d) 480
e) 522
217) Number of boys enrolled in MBA
(Operations) forms, what per cent of the total
number of girls enrolled in MBA (IT)?
a) 187.5%
b) 200%
c) 212.5%
d) 225%
e) 232.5%
218) What is the total number of boys enrolled
in MBA (Entrepreneur)?
a) 240
b) 432
c) 630
d) 756
e) 810
                      Answer:
```

```
(214-218):
Let's try to find out the information from given
data and formulate a table based on that.
Number of student in the college = 7200
Number of boys = 7/12 \times 7200 = 4200
Number of girls = 5/12 \times 7200 = 3000
Number of students in MBA (Marketing) = 22\%
of 7200 = 1584
Number of girls in MBA (IT) = 16\% of 3000 = 480
Number of boys in MBA (HR) = 18\% of 4200 =
756
Number of girls in MBA (Entrepreneur) = 30\% of
480 = 144
Number of boys in MBA (Finance) = 15% of 4200
= 630
Number of boys in MBA (IT) = 50% of 480 = 240
Number of girls in MBA (Operations) = 15\% of
3000 = 450
Number of boys in MBA (Entrepreneur) = 3/1 \times
144 = 432
Number of students in MBA (Finance) = 24% of
```

```
7200 = 1728
=> Therefore, Number of girls in MBA (Finance) =
1728 - 630 = 1098
Number of boys in MBA (Operations) = 12/5 \times
450 = 1080
Number of boys in MBA (Marketing) =
Remaining number of boys
= 4200 - (756+630+240+432+1080)
= 4200 - 3138 = 1062
=> Therefore, Number of girls in MBA
(Marketing) = 1584 - 1062 = 522
Number of girls in MBA (HR) = Remaining
number of girls = 3000 - (480 + 144 + 450 +
1098 + 522) = 30
```

TABULAR FORM
SUBJECTS

MBA(IT)

MBA(HR)

MBA(ENTREPRENEUR)

MBA(FINANCE)

MBA(OPERATIONS)

MBA(MARKETING)

Total

000 -2694 = 306 M:				
NUMBER OF B	oys	NUMBER OF GIRLS		
240	m at it it it is	480		
756	SAININ	306		
432	EXAMS >>>	144		
630		1098		
1080		450		
1062		522		
4200		3000		

214) From the table, it is clear that total number of students enrolled in MBA (HR) = 756 + 306 = 1062

1098 => Required Percentage = 1098/7200 × 100% = 15.25% = 15%

215) Number of girls enrolled in MBA (Finance) =

(Marketing) = 522

216) Number of girls enrolled in MBA

217) Number of boys enrolled in MBA (Operations) = 1080 Number of girls enrolled in MBA (IT) = 480 => Required Percentage = 1080/480 × 100% =

225%
218) Total number of boys enrolled in MBA

218) Total number of boys enrolled in MBA (Entrepreneur) = 432

Set - 43

and answer the question based on them.

CIRCULATION OF MAGAZINES

69000

80000

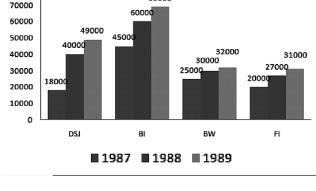
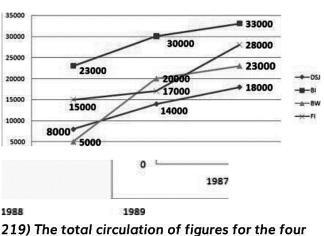


Chart Title



magazines together in 1988 was approximately
a) 108000

- ы) 100000 b) 181000
- c) 157000
- d) 140000
- e) None of these

220) During the years 1987-89, the magazine that has shown maximum percentage growth in circulation has been
a) Business India
b) Dalal Street Journal
c) Business World
d) Fortune India
e) None of these

same rate to its advertiserson Dalal Street journal was charging a year ago, their cost of advertisement per thousand copies in Fortune India would a) decrease by 50 %

c) Decrease by Rs. 400
d) Increase by 25 %
e) None of these

b) increase by Rs. 140

222) In 1988, the advertisement cost of colour page per thousand, copies was lowest for a)
Business India

b) Dalal Street Journal c) Business World d) Fortune India e) None of these 223) The advertisement cost of page per thousand copies for business world has from 1987-88 a) remained the same b) decreased by Rs 200 c) increased by Rs 466 d) Increased by Rs 200 e) None of these Answer: 219) Total circulation in 1988 = 40000 + 60000 + 30000 + 27000 = 157000220) Percentage growth for the business India during 1987-89 = (69 - 45) / 45 * 100% = 53.3%

Percentage growth for the Dalal Street Journal

```
during 1987-89 = (49 - 18) / 18 * 100\% = 172\%
Percentage growth for the Business World
during 1987-89 = (32 - 25) / 25 * 100% = 28%
Percentage growth for the Fortune during
1987-89 = (31 - 20) / 20 * 100% = 55%
MAXIMUM is for Dalal Street Journal
221) In 1989, advertisement tariff for FI in 1989
= Rs 28000
According to condition, advertisement tariff for
1989 = Rs 14000
So, cost of advertisement will be decreased and
percentage decrease per thousand copies =
[(28000 - 31000)/1000] - [(14000/31000) -
1000] / [(28000 - 31000)/1000] = 50%
222) Advertisement cost per 100 copies is given
below Dalal Street Journal = (14000/40000)*1000
= Rs 350 Business World= (20000/30000)*1000 =
Rs 666 Fortune India= (17000/27000)*1000 =Rs
629 Business India= (30000/60000)*1000 =Rs
```

223) Advertising Cost per 1000 copies of

500 LOWEST is for Dalal Street Journal.

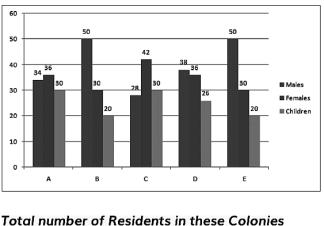
Business World in 1987 = (5000/25000)/1000 = Rs 200

Advertising Cost per 1000 copies of Business World in 1988 = (20000/30000)/1000 = Rs 666 Hence, cost increased by Rs 466

Set - 44

Directions for questions (224-228): Go through the data set given below and solve the questions based on it.

Following bar chart provides the percentage of Adult Males, Adult Females and Children out of total population in five colonies A, B, C, D and E:



Colonies	Residents
А	1250
В	2050
С	1800
D	1150
E	1620

224. What is the total number of adult females in colonies **A, B** and **C** together? a) 1785

b) 1821 c) 1479 d) 1692 e) None of The Above 225. The number of children in colony A are approximately what percent of the number of children in colony E? a) 121 b) 116 c) 75 d) 101 e) 98 226. What is the respective ratio of the number of adult males to the number of adult females in colony B? a) 3:5 b) 7:5 c) 8:7 d) 5:7 e) None of The Above

227. What is the average number of residents from all the colonies together? a) 1654 b) 1600 c) 1580 d) 1574 e) None of The Above

of adult males and the number of children in colony D? a) 138 b) 126 c) 136

228. What is the difference between the number

e) None of The Above

Answer:

224. (Option B)

Total number of adult females in colonies A, B and C together

овоше

d) 135

$$= \left\{ \frac{1250 \times 36}{100} + \frac{2050 \times 30}{100} + \frac{1800 \times 42}{100} \right\}$$

$$= (450 + 615 + 756) = 1821$$
225. (Option B)
$$1250 \times 30$$

Number of Children in Colony A =

— = 375

100

Number of Children in Colony E = $\frac{100}{100}$ = 324

Required Percentage = $\frac{375}{324} \times 100 = 116$

1620 x30

226. (Option E)

Required Ratio = 50 : 30 = 5 : 3

227. (Option D)

1250+2050+1800+1150+1620 7870 1574

Average number of residents from all the

colonies together

228. (Option A)

of 1150

12 ×1150 100

Required Difference = (38 - 26)%

Set - 45 Directions (229 -233): Go through the data set given below and solve the questions based on it.

A rating company rates the performance of three companies producing shoes. The points are allotted according to their sales. The point Index (PI) of each of the companies = The

number of lakh units sold during the month x points allotted.

8 <y<11 y>11</y<11 			5	
			6	The following table
				d of each of i - from Jan 07
Name of Month	Moon	Warle	Enivi	Rank of Months According to PI

13

10

Points Allotted 3

4

1

5

6

2

3

The number of lakh units sold = y

y<5 5<y<8

7

Jun 07

Jan 07

Feb 07

Mar 07

Apr 07

May 07

Note :-1. The number of lakh units sold by all the three The sum of the number of lakh units sold by each of the companies in all the six months together is identical. The number of lakh units sold by any of the companies in any one of the months is at least 1.4. The number of lakh units sold by exactly two companies in each of the months Feb 07, Mar 07, and Apr 07 is identical. The Point Index of Jan 07 and May 07 is 26 and 17 less than

companies in each of the months is identical. 2.

one more than that of March 07.

6. The number of lakh units sold by Moon in Mar 07 and Apr 07 together is equal to that in May 07. 7. The sum of PI in any month is not greater than 100.

8. The least possible Point Index (PI) is in Apr 07 for the sum of lakh units sold by all three companies.

Feb 07 respectively. Also the PI in Jan 07 is

229. What is the number of lakh units sold by Enivi in Mar 07? a) 5 b) 6 c) 4d) 7 e) None of The Above 230. Find the PI of all the three companies in Apr **07**. a) 59 b) 60 c) 61 d) 58 e) None of The Above 231. What is the number of lakh units sold by Moon in all the six months together? a) 34 b) 32 c) 36 d) 38 e) None of The Above 232. What is the number of lakh units sold by

```
Enivi in May 07? a) 7
b) 4
c) 5
d) 8
e) None of The Above
233. What is the PI of Warle in all the six months
together? a) 139
b) 153
c) 138
d) 148
e) None of The Above
                      Answer:
229. (Option B)
230. (Option D)
231. (Option A)
232. (Option C)
233. (Option D)
                      Set - 46
```

Directions (234-243): Study the following pie chart and table to answer these questions.

State wise details of adult population of a country

Gradute and above Total number = 24 lakh



Upto XII Std pass

Total number = 32 lakh



STATES	ABOVE		PASS	
	MALES FEMALES		MALES	FEMALES
AP BIHAR CHD DELHI GOA MP	7 5 5 9 9	5 3 4 8 7 3	7 3 4 5 9 3	9 5 5 7 10 2
234) What is a graduate male population from (b) 14000 (c) 28000 (d) 36000 (e) None of the	e populati om AP ? (c	ion and λ		

235) What is the ratio of female population of Goa to XII Std female population of Delhi

GRADUATES AND UPTO XII STD

```
respectively? (a) 7:5
(b) 5:7
(c) 16:15
(d) 15:16
(e) None of these
236) Graduate female population of Chandigarh
what per cent of the XII Std female population of
the state,
(a) 40%
(b) 62.5%
(c) 50 %
(d) 52.5%
(e) None of these
237) Class XII pass male population of
Chandigarh is what per cent of the total XII Std
population of all the states together?
(a) 8%
(b) 12%
(c) 11%
(d) 9%
```

238) What is the ratio of graduation male population of the Goa to XII Std female population of that state ? (a) 28:35 (b) 35:28 (c) 32:45 (d) 45:32 (e) None of these 239) Total graduate population of state MP is what per cent of the total XII Std population of AP? (a) 56% (b) 72% (c) 68% (d) 72% (e) None of these 240) XII Std male population of Goa is what per cent of XII Std male population of MP? (a) 70%

(e) None of these

(b) 75%

(c) 68%(d) 72% (e) None of these 241) What is the ratio of the total graduate and XII Std male population of AP to the total graduate and XII Std of AP to the total graduate and XII Std female population of that state? (a) 215:216 (b) 214:215 (c) 217:215 (d) 215:217 (e) None of these 242) What is the ratio of the total graduate population of the Delhi to the total Std population of that state? (a) 17:16 (b) 16:17 (c) 64:51 (d) 51:64

243) Graduate female population of Bihar is what per cent of the graduate female population of Goa? (rounded off to nearest integer)

(e)None of these

(e) None of these

(a) 129%

(b) 82% (c) 77% (d) 107%

Answer:

234) Graduate male population of AP = (24 *16

/ 100 * 7/12) lakh = 2.24 lakh

XII Std male population of AP = (32 *12 / 100 *

7 / 16) lakh = 2.1 lakh

=> Required difference = (2.24 - 2.1) lakh =

14000

235) Graduate female population of Goa = (24 * 20 / 100 * 7 / 16) lakh = 2.1 lakh XII Std female population of Delhi = (32 * 12 / 100 * 7 / 12)

210:224 = 15:16

236) Graduate female population of Chandigarh
= (24 * 15/100 *4/9) lakh = 1.6 lakh XII Std
female population of Chandigarh = (32 * 18/100
* 5/9) lakh =3.2 I lakh => Required percentage =

 $lakh = 2.24 \ lakh => Required Ration = 2.1:2.24 =$

1.6/3.2 * 100 = 50%

237) XII Std male population of Chandigarh = 32

* 18/100 * 4/9 = 2.56 lakh => Required
percentage = 2.56/32 * 100 = 8%

20/100 * 9/16 = 2.7 lakh XII Std female population of Goa = 32 * 19/100 * 10/19 = 3.2 lakh => Required Ratio = 27:32 239) Total graduate population of MP = 24 *

238) Graduate male population of Goa = 24 *

14/100 = 3.36 lakh XII Std total population of AP = 32 * 15/100 = 4.8 lakh => Required Percentage = 3.36/4.8 * 100 = 70%

```
240) XII Std pass male population of Goa = 32 *
19/100 * 9/19 = 2.88 lakh XII Std pass male
population of MP = 32 * 20/100 * 3/5 = 3.84
lakh => Required Percentage = 2.88/3.84 * 100 =
75%
241) Graduate male population of AP = 24 *
7/12 * 6/100 =2.24 lakh XII Std pass male
population of state AP = 32 * 15/100 * 7/16 =
2.1 lakh Sum = (2.24 + 2.1) lakh = 4.34 lakh
Graduate female population of AP = 24 * 5/12
16/100 = 1.6 lakh XII Std pass female population
of state AP = 32 * 15/100 * 9/16 = 2.7 lakh Sum =
(1.6 + 2.7) = 4.3  lakh
=> Required ratio =434:430=217:215
```

242) Total population of Delhi = 17% of 24 lakh Total XII Std population of Delhi = 12% of 32 lakh => Required Percentage = 17% of 24 lakh :

12% of 32 lakh = 17*24 : 12*32 =17 : 16 243) Graduate female population of Bihar = 24 * 18/100 * 3/8 = 1.62 lakh Graduate female population of Goa = 24 * 20/100 * 7/16 = 2.1 lakh => Required Percentage = 1.62/2.1 * 100 = 77%

Set - 47

Directions (244-248): Study the given table carefully to answer the following questions. Base (in m) Field Shape Side (in Height Radius Cost of Cost of Name m) (in m) (in m) flooring fencing (in Rs. (in Rs. per sq. per m) metre) A 20 Triangle 16 12 50 B 10 × 20 30 15 Rectangle C Sauare 15 40 18 Parallelogram 20 12 60 25

10

45

22

244) What is the cost of flooring of A?

Circle

a) Rs.4000 b) Rs.4600 c) Rs.4800 d) Rs.5000 e) Rs.4400

245) What is the difference between the cost of

```
fencing of C and that of B? a) Rs.180
b) Rs.120
                      c) Rs.240
d) Rs.360
                      e) Rs.480
246) What is the ratio of the cost of flooring to
that of fencing of field D? a) 4:1
b) 6:1
                      c) 8:1
d) 9:1
                      e) 5 : 1
247) The cost of fencing of field E is
approximately what percent of the cost of
flooring of field C? a) 10.5%
                                          b)
19.46%
                    c) 18.71%
d) 15.36%
                       e) 13.82%
248) The cost of fencing of field C is what
percent of the cost of fencing of field D? a)
87.54%
                    b) 67.5%
                                           c)
72.13%
d) 54.36%
                       e) 46.5%
                       Answer:
244. Option C
```

So, area of A = 1/2 × 16 × 12 = 96 sqm
So, cost of flooring of A = 96 × 50 = Rs.4800

245. Option A
Perimeter of B = 2 (10 + 20) = 60 m

So, cost of fencing of $B = 60 \times 15 = 900$ Perimeter of $C = 4 \times 15 = 60$ m

So, cost of fencing of $C = 60 \times 18 = Rs.1080$ So, required difference = 1080 - 900 = Rs.180

Area of D = Base × Height = 20 × 12 = 240 mtr sq

Perimeter of D = 2(20 + 12) = 64 m

A is a triangle

So, cost of fencing of D = 64 × 25 = Rs.1600 So, required ratio = 14400 : 1600 = 9 : 1

247. Option D

So, cost of flooring of D= $240 \times 60 = Rs.14400$

Perimeter of E = $2\pi r$ = 2 × 22/7 × 10 = 440/7 m

Area of C = 15 * 15 = 225 mtr square So, cost of flooring of $C = 225 \times 40 = \text{Rs.}9000$ So, required $\% = 1382.85 \times 100 / 9000 = 15.36\%$ of

Cost of fencing of $E = 440/7 \times 22 = Rs.1382.85$

248. Option B

flooring cost of C.

Fencing cost of C = Rs.1080 Fencing cost of D = Rs.1600 Required % = 1080/1600 × 100 = 67.5%

Set - 48

Directions (249-253): Study the given chart carefully and answer the following questions.

Train A

Station	Arrival time	Departure	Distance	Number of	Fare (in Rs.)	
		time	from origin (in km)	passengers boarding at each station		
Ahmedabad	Starting	5:00 pm	-	400		
Vadodara	6:30 pm	6:35 pm	100	100	50	
Bharuch	8:50 pm	9:00 pm	250	90	120	
Mumbai	4:00 am	4:10 am	800	300	400	
Pune	7:30 am	7:45 am	1050	150	500	
Solapur	10:20 am	Terminates	1280	-	620	

Train B

Distance

from origin

Departure

time

Fare (in Rs.)

Number of

passengers

Station

c) 27.03% d) 47.30%

Arrival time

				each station	
Solapur	Starting	6:00 pm	-	300	-
Pune	7:40 pm	7:45 pm	230	150	120
Mumbai	9:30 pm	9:35 pm	480	270	220
Bharuch	5:40 am	5:55 am	1030	50	500
Vadodara	9:00 am	9:10 am	1180	100	570
Ahmedabad	12:00 noon	Terminates	1280	-	620
>00000000000 . 0000000000		000000000000	0000000000	boarding the numb	
passeng	gers boa	rding Tr	ain B at	Mumbai?	?
a) 37.03	1%	b)	47.03%		

250) What is the difference between the speed of Train A and that of Train B? a) 2.73 kmph

e) None of these

b) 1.97 kmph

c) 3.6 kmph d) 2.62 kmph e) 3.9 kmph

251) What is the ratio of the total passengers of

```
Train A to that of Train B? a) 102:79
b) 104:87
                              c) 103:87 d) 110:
79
              e) 113:87
252) The total income of Train A is what percent
of the total income of Train B? a) 180%
b) 159.51%
                              c) 123.29% d) 125%
e) 127.64%
253) If the average speed of Train A increases
by 10% then when will it reach to its
destination? a) 7:45 am
                                    b) 9:45 am
c) 8:45 am
d) 10:45 am
                      e) 11:45 am
                      Answer:
249. Option A
Required percentage = 100/270 \times 100 = 37.03\%
250. Option A
Speed of Train A = 1280 / 10:20 \text{ am} - 5:00 \text{ pm}
= 1280 / 17 hours 20 minutes
```

```
= 1280 \times 3 / 52 = 73.84 \text{ kmph}
Speed of train B = 1280 / 12:00 \text{ noon } -6:00 \text{ pm}
= 1280/18 \text{ hours} = 71.11 \text{ kmph}
So, difference between the speed of train A and
train B = 73.84 - 71.11 = 2.73 kmph
251. Option B
```

Total passengers in train A = 400 + 100 + 90 +300 + 150 = 1040 Total passengers in train B =

300 + 150 + 270 + 50 + 100 = 870 So, required ratio = 1040 : 870 = 104 : 87

252. Option E Total income of train $A = (400 \times 50) + (500 \times 70)$

 $+ (590 \times 280) + (890 \times 100) + (1040 \times 120) =$

Rs.434000 Total income of train $B = (300 \times 120) +$

 $(450 \times 100) + (620 \times 280) + (670 \times 70) + (770 \times 100)$ 50) = Rs.340000 So, required % = 434000 x 100 /

340000

= 127.64% of the total income of train B.

253. Option C If the average speed of train A increases by 10%

then its new speed = 73.84 × 110/100 = 81.22 kmph

Time taken by train A during the journey =

1280/81.22 = 15.75 hours = 15 hours 45 minutes The time when the train will reach its destination = 5 pm + 15 hours 45 minutes = 8:45 am

Set - 49

	Temperature				
	Durban	Quito	Columbus	Lisbon	Riyadh
January	20°C	15°C	20°C	22°C	35°C
February	21°C	16°C	18°C	20°C	30°C
March	22°C	18°C	16°C	22°C	32°C
April	25°C	20°C	15°C	25°C	36°C
May	28°C	22°C	14°C	18°C	38°C

254. What is the difference between the average temperature of Durban and that of Quito? a) 8°C

b) 11°C

```
c) 9°C
d) 7°C
e) 5°C
255. What is the difference between the
average temperature of all cities in May and
that if February?
a) 10°C
b) 13°C
c) 3°C
d) 2°C
e) 5.8°C
256. The average temperature of Riyadh is
approximately what percent more than that of
Columbus? a) 105%
b) 106%
c) 93.5%
d) 87.21
e) 110.52%
```

```
257. What is the ratio of the average
temperature of Lisbon to that of Quito? a) 91:89
b) 107:91
c) 57:47
d) 103:95
e) 2 : 3
258. The average temperature in May is what
percent of the average temperature in March of
the given five cities?
a) 89.91%
b) 103.51%
c) 120%
d) 109.09%
e) 105.21%
                    Answer:
(254-258):
254. (Option E)
```

Average temperature of Durban =

So, required difference =
$$(23.2^{\circ} - 18.2^{\circ}C) = 5^{\circ}C$$

255. (Option C)

Average temperature in May =
$$\frac{(28^{\circ}+22^{\circ}+14^{\circ}+18^{\circ}+38^{\circ})C}{5} = 24^{\circ}C$$

Average temperature in Feb. =
$$\frac{(21^{\circ}+16^{\circ}+18^{\circ}+20^{\circ}+30^{\circ})C}{5} = 21^{\circ}C$$

So, required difference = $(24^{\circ}C - 21^{\circ}C) = 3^{\circ}C$

256. (Option B)

Average temperature of Riyadh =

Average temperature of Quito =

 $\frac{(20+21+22+25+28)}{}$ = 23.2°C

 $\frac{(15+16+18+20+22)}{}$ = 18.2°C

temperature of Columbus
$$= \frac{(20^{\circ}+18^{\circ}+16^{\circ}+15^{\circ}+14^{\circ})C}{5} = 16.6^{\circ}C$$
So, required % = $\frac{34.2^{\circ}-16.6^{\circ}C}{16.6^{\circ}} \times 100\%$
= 106.02%
$$106\% \text{ more than average temperature}$$
of Columbus

 $(35^{\circ}+30^{\circ}+32^{\circ}+36^{\circ}+38^{\circ})C = 34.2^{\circ}C$ Average

257. (Option B)
Average temperature of Lisbon =

$$\frac{(22^{\circ}+20^{\circ}+22^{\circ}+25^{\circ}+18^{\circ}C)}{5} = 21.4^{\circ}C$$
Average temperature of Quito

 $= \frac{15^{\circ}+16^{\circ}+18^{\circ}+20^{\circ}+22^{\circ}}{5} = 18.2^{\circ}C$ So, required ratio = 21.4 : 18.2 = 107 : 91

258. (Option B)

Avarage temperature in May = 249C

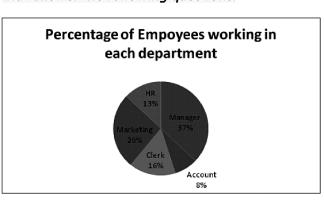
Average temperature in May = 24°C Average temperature in March = So, average temperature in May is $\frac{24 \times 100}{22} = 109.09\%$ of average temperature in March

Directions (259-263):

22°+18°+16°+22°+32°C

Study the pie chart and table carefully based on that answer the following questions.

Set - 50



The pie chart shows the percentage of

department Total number of Employees=1200
The table shows the no. Of females in each
department

Employees working in different government

80
167
116

department Manager, HR and Clerk. 1)400 2)380 3)394

4)396

1)56:37

5)360

260. What is the ratio of females working in department Manager and clerk and males in department HR and marketing.

2)56:35 3)55:37 4)55:30 5)57:37 261. Number of Females working in Manager department is what percentage of total number of employees working in all the department. 1)17% 2)20% 3)9% 4)15% 5)18% 262. What is the central angle corresponding to the total number of clerk . 1)52.6 ° 2)55.2° 3)61.1° 4)56.4° 5)57.6°

263. What is the ratio between total number of females employees working in all the department together and males working in all the department.

1) 187:200

3)199:221 4)201:221 5)201:199

2)199:201

259. (4) 260. (1) 261. (1) Answer:

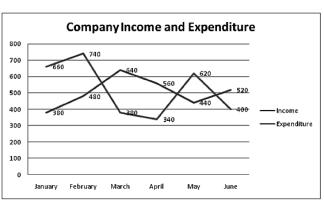
262. (5) 263. (5)

Set - 51

Directions (264-268): Study the graph carefully and answer the following question.

Data related to Income (In Rs thousand) and

Data related to Income (In Rs thousand) and Expenditure (in Rs thousand) of company during



Loss percent =(Loss/Expenditure *100)

264. What is average profit earned by company

Percent profit =(Profit /Expenditure *100)

Profit =(Income -Expenditure)

Loss =(Expenditure-Income)

In January ,February and May. 1)280 2)220

3)240 4)200

six months.

- 265. What is total loss percentage incurred by company in March and April . 1)40
- 2)50 3)30
- 4)45
 5) 36 **266. Profit earned by company in Feb is by what**
- percent more than profit earned by company in May. 1)44 3/9
- **May**. 1)44 3/9 2)48 8/9 3)38 4/9
- 4)42 2/9 5)44 4/9
- 267. in Which month company earned the maximum profit . 1) January2) February
- 3) March 4) April

5)260

268. If company income increased by 20% from June to July and Expenditure decrease by 10%

.What was his profit percent in month of July. 1)72 1/3

Answer:

4)75 1/3 5)73 2/3

264.(3)

265. (1)

5) May

2)73 1/3 3)75 2/5

266. (5)

267. (1) 268. (2)

Set - 52

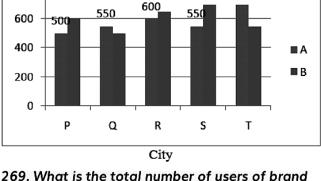
Directions (269 -273): Study the following graph carefully and answer the questions that follow:

The graph given below represents the number of

800 700

users of two broadband services A and B across

5 cities P, Q, R, S and T.



B across all give cities together? a) 2700 b) 3000

c) 3100d) 2900e) 3200

270. The number of users of brand A in city T is

what percent of the number of users of brand B in city Q? a) 150 b) 110 c) 140 d) 160 e) 120 271. What is the average number of users of brand A across all five cities together? a) 560 b) 570 c) 580 d) 590 e) 550 272. What is the difference between the total number of users of brand A and B together in city R and the ottal number of users of brand A and B together in city P? a) 170 b) 140 c) 130

```
users of brand A in city P to the number of users of brand B in city S?

a) 5:7

b) 4:7

c) 2:5

d) 3:4

e) 5:6

Answer:
(269-273):
```

Total users of brand B across five cities = 600 +

273. What is the respective ratio of the number

d) 150 e) 160

269. (Option B)

270. (Option C)

500 + 650 + 700 + 550 = 3000

Brand A users in city T = 700Brand B users in city Q = 500

Required $\% = 700 / 500 \times 100 = 140\%$

271. (Option C)

Total users of Brand A across five cities = 500 + 550 + 600 + 550 + 700 = 2900 Average = 2900 / 5 = 580

272. (Option D)

273. (Option A)

Brand A and B users in city R = 600 + 650 = 1250 Brand A and B users in city P = 500 + 600 = 1100 Required difference = 1250 – 1100 = 150

Brand A users in city P = 500 Brand B users in city S = 700

Ratio = 500 / 700 = 5 / 7 = 5 : 7

Set - 53

Directions (274-278): Study the given table carefully to answer the following questions.

Field	Shape	Side (in	Base	Height	Radius	Cost of	Cost of
Name		m)	(in m)	(in m)	(in m)	flooring	fencing
						(in Rs.	(in Rs.
						per sq.	per m)
						metre)	
Α	Triangle		16	12		50	20
В	Rectangle	10 × 20				30	15
С	Square	15				40	18
D	Parallelogram		20	12		60	25
E	Circle				10	45	22
c) Rs.	.4600 4800						
d) Rs.	.5000						
e) Rs.	4400						
275.V	What is the	e diffe	erence	e betv	een t	he cos	t of
fenci	ng of C an	d tha	t of B	? a) R	s.180		
b) Rs.	.120						

c) Rs.240

d) Rs.360 e) Rs.480

```
276. What is the ratio of the cost of flooring to
that of fencing of field D? a) 4:1
b) 6:1
c) 8:1
d) 9:1
e) 5:1
277. The cost of fencing of field E is
approximately what percent of the cost of
flooring of field C? a) 10.5%
b) 19.46%
c) 18.71%
d) 15.36%
e) 13.82%
278. The cost of fencing of field C is what
percent of the cost of fencing of field D? a)
87.54%
```

b) 67.5%c) 72.13%d) 54.36%

e) 46.5%

Answer:

274. Option C

A is a triangle

So, area of A = 1/2 × 16 × 12 = 96 sqm

So, cost of flooring of A = 96 × 50 = Rs.4800

275. Option A

Perimeter of B = 2 (10 + 20) = 60 m

So, cost of fencing of B = 60 × 15 = 900 Perimeter

of $C = 4 \times 15 = 60 \text{ m}$ So, cost of fencing of $C = 60 \times 18 = \text{Rs.}1080 \text{ So,}$ required difference = 1080 - 900 = Rs.180

276. Option D

Area of D = Base × Height
= 20 × 12 = 240m²

So, cost of flooring of D= 240 × 60 = Rs.14400

Perimeter of D = 2 (20 + 12) = 64 m

Perimeter of D = 2 (20 + 12) = 64 m So, cost of fencing of D = $64 \times 25 = Rs.1600$ So, required ratio = 14400 : 1600 = 9 : 1 **277.Option** Perimeter of E = $2\pi r = 2 \times 22 / 7 \times 10 = 440 / 7$ m Cost of fencing of E = $440 / 7 \times 22 = Rs.1382.85$ Area of C = $(15)^2$ =

 $225m^{2}$ So, cost of flooring of $C = 225 \times 40 = Rs.9000 So$, required $\% = 1382.85 \times 100 / 9000 = 15.36\%$ of flooring cost of C.

278. Option B Fencing cost of C = Rs.1080

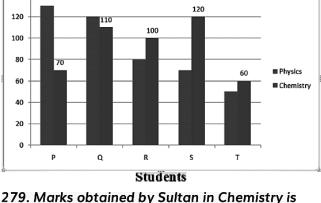
Fencing cost of D = Rs.1600Required $\% = 1080 / 1600 \times 100 = 67.5\%$

Directions (279 -283): Study the following bar graph carefully to answer the questions.

Set - 54

Five students namely Param, Qartar, Rasheed, Sultan and Tango are termed as P, Q, R, S and T.

Marks obtained by them in Physics and Chemistry:-



what percent of the total marks obtained by all the students in Chemistry?

a) 26

c) 35 d) 31.5

b) 28.5

e) 22

280. If the marks obtained by Tango in Physics were increased by 14% of the original marks,

what would be his new approximate percentage in Physics if the maximum marks in Physics were 140? a) 57 b) 32 c) 38 d) 48 e) 41 281. Fill in the blank space in order to make the sentence correct as per the given information. Total marks obtained by Tango in both the subjects together is more than the marks obtained by a) Qartar in Chemistry b) Rasheed in Physics c) Sultan in Chemistry d) Param in Physics e) Rasheed in both the subjects together 282. What is the respective ratio between the total marks obtained by Param in Physics and Chemistry together to the total marks obtained

by Tango in Physics and Chemistry together? a) 3

```
: 2
b) 20 : 11
c) 5:3
d) 2:1
e) None of these
283. What is the respective ratio between the
total marks obtained by Qartar and Sultan
together in Chemistry to the total marks
obtained by Param and Rasheed together in
Physics? a) 23:25
b) 23 : 21
c) 17:19
d) 17:23
e) None of these
                      Answer:
279 (Option A)
Required percentage mark = 120 / 90 + 110 +
100 + 120 + 60 \times 100
20 / 460 × 100 = 26%
280. (Option E)
```

New marks of T in physics = $114 / 100 \times 50 = 57$ T's new percentage = $57 / 140 \times 100 = 41$ **281.** (Option B)

Marks obtained by Tango in both subjects together is more than the marks obtained by Rasheed in Physics.

Required ratio = 130 + 70 : 50 + 60 = 200 : 110 20: 11

282. (Option D)

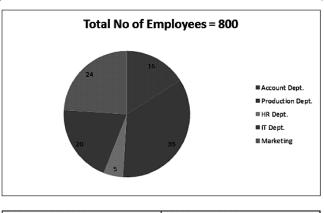
283. (Option B)

Required ratio = 110 + 120 : 130 + 80 = 230 : 210 23 : 21

Set - 55

Percentage breakup of employees working in various departments of an organization and

the number of males in them



Department	Number of Males	
Production	245	
HR	12	
π	74	
Marketing	165	
Accounts	93	
	•	

284. The number of males working in the Marketing department is what percent of the total number of employees working in that department? (Rounded off to the nearest integer) a) 70 b) 78 c) 63 d) 91 e) 86 285. What is the respective ratio between the number of females working in the HR department and the total number of employees in that department? a) 7:10 b) 5:7 c) 8:17 d) 12:19 e) None of these 286. The number of males working in the Production department of the organization forms what percent of the total number of employees working in that department? a) 76.5

b) 72.5 c) 61.5 d) 87.5 e) None of these 287. The number of females working in the IT department forms what percent of the total number of employees in the organization from all departments together? a) 10.75 b) 15.25 c) 11.5 d) 13.75 e) None of these 288. What is the respective ratio of the number of males working in the marketing department to the number of females working in that department? a) 63:8 b) 55:9 c) 64:7 d) 56:3

Answer :

284. Option E

e) None of these

Total number of employees working in the marketing department = 800 × 24/100

285. Option A

Total number of employees working in the HR department = 800 × 5/100 = 40 Total number of female employees working in the HR department

= 40 - 12 = 28 Required ratio = 28:40 = 7:10

286. Option D

Total number of employees working in the Production department = 800 × 35/100 = 280 Required percentage = 245/280×100=87.5%

287. Option ATotal number of employees working in the IT

department = 800 × 20/100 = 160 Total number of female employees working in the IT department = 160 – 74 = 86 Required percentage

= 86/800 × 100 = 10.75%

288. Option B Total number of employees working in the

ratio of men

Marketing department = 800 × 24/100 = 192
Total number of female employees working in
the Marketing department = 192 – 165 = 27
Required ratio = 165:27 = 55:9

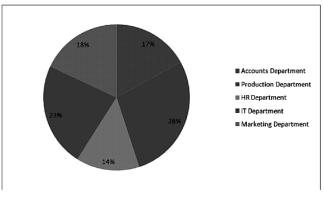
Set - 56

Directions (289-293) Study the following pie chart and table carefully to answer the questions that follow.

Percentage breakup of employees working in various departments of an organization and the

to women in them

Total number of employees = 1800



Ratio of Men to Women

Department	Men	Women
Production	11	1
HR	1	3
IT	5	4
Marketing	7	5
Accounts	2	7

289. What is the number of men working in

the Marketing department? a) 132 b) 174 c) 126 d) 189 e) None of these 290. The number of men working in the production department of the organization forms what percent of the total number of employees working in that department? (rounded off to two digits after decimal) a) 89.76 b) 91.67 c) 88.56 d) 94.29 e) None of these 291. What is the respective ratio of the number of men working in the Accounts department of the total number of employees working in that department? a) 9:2

b) 7:6 c) 2:9 d) 6:7 e) None of these 292. What is the respective ratio of the number of women working in the HR department of the organization and the total number of employees in that department? a) 3:4 b) 2:5 c) 2:9 d) 3:7 e) None of these 293. The number of women working in the IT department of the organization forms approximately what percent of the total number of employees in the organization from all departments together? a) 7 b) 5

289. Option D

Number of working men in Marketing department =
$$1800 \times \frac{18}{100} \times \frac{7}{715} = 189$$

290. 2. Option B

$$\frac{1800 \times \frac{28}{100} \times \frac{11}{11+1}}{1800 \times \frac{28}{100}} \times 100$$

c) 19 d) 15 e) 10

291. Option C
$$\frac{1800 \times \frac{17}{100} \times \frac{2}{2+7}}{1800 \times \frac{17}{100}} = \frac{68}{306} = \frac{2}{9} = 2:9$$

 $=\frac{462}{} \times 100 = 91.67\%$

292. Option A

$$\frac{1800 \times \frac{14}{100} \times \frac{3}{4}}{1800 \times \frac{14}{100}} = \frac{189}{252} = \frac{3}{4} = 3:4$$

293. Option E

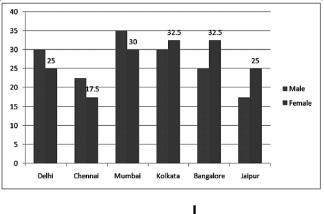
$$\frac{1800 \times \frac{23}{100} \times \frac{4}{9}}{1800} \times 100 = 10\% \text{ (approx.)}$$

Set - 57

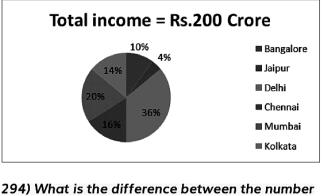
Directions (294-298): Study the bar-chart and pie-chart carefully to answer the given questions.

Working male and female population (in lakh) in various cities

Population (in Lakh)



Percentage income of the people among six cities



of working females in Bangalore and the number of working males in Chennai?
a) 12.5 lakh

- b) 11 lakh
- c) 9 lakh d) 12 lakh
- e) 10 lakh
- 295) In which city is the income per working person the minimum? a) Delhi
 b) Jaipur
- c) Bangalore

d) Chennai e) Mumbai 296) What is the sum of the average working

a) 63.35 lakh

e) Rs.4.565 Crore

- male and average working female population of the given six cities (calculate approximate value)?
- b) 49.96 lakh c) 51.48 lakh d) 53.75 lakh
- e) 65.51 lakh 297) In Delhi, what is the difference between the
- income of males and that of females? (Assume each person (male/female) has equal income.)
- a) Rs.6.545 Crore b) Rs.5.055 Crore c) Rs.2.935 Crore d) Rs.3.455 Crore

298) The number of working females in Mumbai is what percent of the number of working males in Bangalore? a) 95%

c) 120% d) 132%

32.5 - 22.5 10 lakh

b) 110%

e) 144%

Rs.130.9

Answer: 294. Option E

The difference between the working females in Bangalore and the working males in Chennai =

295. Option B Income per working person = Total income of

city / Number of working people in city Income per working person in Delhi = 200 Crore x 36/100 / (30+25) Lakh = 72/ 55

In Chennai = $200 \times 16/100 / (22.5+17.5)$ Lakh = Rs.80 In Mumbai = 200 x 20/100 / (35+30) Lakh = Rs.61.53 In Kolkata = $200 \times 14/100 / (30+32.5)$ Lakh = Rs.44.8 In Bangalore = $200 \times 10/100 / (25+32.5)$ Lakh = Rs.34.78 In Jaipur = $200 \times 4/100 / (17.5+25)$ Lakh = Rs.18.82 The income per working person in Jaipur is the minimum. 296. Option D Average number of working males = $1/6 \times (30 +$ 22.5 + 35 + 30 + 25 + 17.5) = 26.66 lakh Average

number of working females = $1/6 \times (25 + 17.5 +$ 30 + 32.5 + 32.5 + 25) =27.08 lakh So, required sum = 26.66 + 27.08 = 53.75 lakh

297. Option A

Crore Income per person = 72 Crore / 55 Lakh = Rs.130.9 So, required difference of income = 5 lakh × 130.9 = Rs.654.5 lakh = Rs.6.545 Crore

298. Option C

Total income of Delhi = $[200 \times 36/100]$ = Rs.72

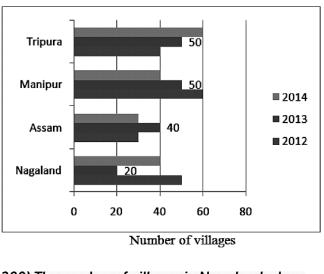
Set - 58

Required $\% = 30/25 \times 100 = 120\%$

Directions (299-303): Study the given bar-chart carefully and answer the following questions.

different states where electrification was done in different years.

The graph shows the number of villages in fouir



299) The number of villages in Nagaland where electrification was done in 2013 is what percentage of the number of villages in Tripura where electrification was done in 2014?

a) 55.5%

c) 77.7% d) 66.6%

b) 44.4%

- e) 33.3%

 300) What is the ratio of the villages in Assam to those in Manipur where electrification was done in 2013? a) 1:4
 b) 3:4
 c) 1:2
- e) 3 : 2

 301) In which state was the electrification work done in maximum villages during the given three

d) 4:5

years? a) Assam b) Manipur

c) Manipur and Tripura

- d) Nagaland
 e) Manipur and Assam

 302) If the cost of electrification of a village is
- Rs.75 lakh then what is the cost of electrification in four states during the given period?

 a) Rs.4319000000

c) Rs.4143000000 d) Rs.355700000 e) Rs.2721000000 303) In which year was the electrification work done in maximum number of villages? a) 2012 b) 2013 c) 2014d) 2013 and 2012 e) 2012 and 2014 Answer:

299. Option E Required $\% = 20/60 \times 100 = 33.3\%$ of

electrification of villages in Tripura in the year 2014 300. Option D

Number of villages in Assam where

electrification was done in 2013 = 40Number of villages in Manipur where electrification was done in 2013 = 50

So, required ratio = 4:5

b) Rs.3825000000

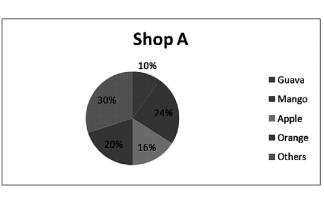
301. Option C In Assam, the number of villages where electrification was done = 30 + 40 + 30 = 100 InManipur = 40 + 50 + 60 = 150In Tripura = 40 + 50 + 60 = 150In Nagaland = 40 + 20 + 50 = 110So, maximum electrification in both Tripura and Manipur. 302. Option B Total number of villages in four states where electrification was done = 100 + 150 + 150 + 110= 510 So, cost of electrification = 7500000 × 510 = Rs.3825000000 303. Option A Number of villages where electrification was done in 2012 = 50 + 30 + 60 + 40 = 180 Number of villages where electrification was done in 2013 = 20 + 40 + 50 + 50 = 160 Number of villages where electrification was done in 2014 = 40 + 30 + 40 + 60 = 170 In 2012 maximum Set - 59

electrification work was done.

Set - 55

Directions (304-308): Study the pie-chart carefully to answer the questions given below:

The pie-charts shows the percentage quantity of fruits at two fruit shops A and B.



Total quantity = 1200 kg



304) What is the difference between the

e) 50 kg

quantity of Guava at Shop B and that at Shop
A? a) 40 kg
b) 45 kg
c) 35 kg
d) 30 kg

305) If the price of Mango is Rs.30 per kg, Apple

Rs.40 per kg and Orange Rs.20 per kg, then what

```
is the ratio of their costs at Shop A?
a) 1:4:6
b) 9:8:5
c) 3:7:8
d) 5:4:1
e) 2:5:7
306) The quantity of Mango at Shop B is what
percent of the quantity of Mango at Shop A? a)
20%
b) 220%
c) 120%
d) 80%
e) 180%
307) If the price of Mango is Rs.30 per kg, Apple
Rs.40 per kg and Orange Rs.20 per kg, other
fruits Rs.15 per kg and Guava Rs. 18 per kg for
both Shop A and B then what is the difference
between the cost of all fruits at Shop A and that
at Shop B?
```

```
a) Rs.7200
b) Rs.3500
c) Rs.6400
d) Rs.5100
e) Rs.4600
308) The quantity of Orange at Shop A is what
percent more than that of Apple at Shop B? a)
161.52%
b) 195.5%
c) 182%
d) 190%
e) 171.42%
                      Answer:
304. Option A
Quantity of Guava at Shop A = 1200 \times 10/100 =
120 kg
Quantity of Guava at Shop B = 1000 \times 16/100 =
160 kg
So, required difference = 160 - 120 = 40 \text{ kg}
```

```
305. Option B
Cost of Mango at Shop A = 30 \times 1200 \times 24/100
= Rs.8640
Cost of apple = 40 \times 1200 \times 16/100 = Rs.7680
Cost of Orange = 20 \times 1200 \times 20/100 = Rs.4800
So, required ratio = 8640 : 7680 : 4800
= 9:8:5
306. Option C
Quantity of Mango at Shop B = 1000 \times 24/100 =
240 kg
Quantity of Mango at Shop A = 1200 \times 24/100 =
288 kg
So, required \% = 288 \times 100/240 = 120\% of the
quantity of Mango at Shop A
307. Option D
Cost of total fruits at Shop A = Cost of Mango +
Cost of Apple + Cost of Guava + cost of orange +
cost of other fruits
(1200 \times 24/100 \times 30 + 1200 \times 16/100 \times 40 +
1200 × 10/100 × 18 + 1200 × 20/100 × 20 + 1200
```

= 8640 + 7680 + 2160 + 4800 + 5400 = Rs.28680 Cost of total fruits at Shop B = $(1000 \times 24/100 \times$ 30 + 1000 × 14/100 × 40 + 1000 × 16/100 × 18 +

 $1000 \times 20/100 \times 20 + 1000 \times 26/100 \times 15$ = 7200 + 5600 + 2880 + 4000 + 3900 = Rs.23580 So, required difference = 28680 - 23580 =Rs 5100

308. Option E

× 30/100 × 15)

Quantity of Orange at Shop A = $1200 \times 20/100 =$ 240 kg Quantity of Apple at Shop B = $1000 \times 14/100 =$ 140 kg

So, required $\% = 240 \times 100 / 140 \% = 171.42\%$ more than the quantity of Apple at Shop B.

Set <u>- 60</u>

Directions (309-313): Study the given table carefully to answer the following questions:

Following table shows the investment (In Rs.

Crore) in various sectors in different years

2012

	100000000000000000000000000000000000000							
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
Industry	5000	2000	1000	1500	4000	3000	6000	1500
Cement	3000	1600	3000	2500	5000	2800	4000	1800
Metals	4000	2800	3500	2000	3200	2200	1500	500
Machinery	2000	3000	2500	3000	3600	6000	1000	1500
Transport	2500	2000	1500	3200	3000	1600	4000	1000
Fuel	1500	2500	1000	2800	1500	5000	1200	2000
Chemical	3500	1000	500	4000	2400	3200	2000	3000

2013

2014

309) What is the difference between the total domestic investment and the total foreign investment in the year 2011?

a) Rs.6400 Crore

2011

- b) Rs.6200 Crore
- c) Rs.6600 Crore
- d) Rs.7000 Crore
- e) Rs.7100 Crore
- 310) What is the ratio of the total investment in

```
Metals to that in Machinery? a) 135:302
b) 24:49
c) 2:4
d) 197: 226
e) 123 : 233
311) What is the average domestic investment
in the year 2014? (You are not expected to
calculate the exact value?
a) Rs.2814.28 Crore
b) Rs.2519.75 Crore
c) Rs.2234.82 Crore
d) Rs.3151.51 Crore
e) Rs.3329.79 Crore
312) Domestic investment in 2013 is what
percent of foreign investment in 2011? a) 176.5%
b) 179.7%
c) 181.6%
d) 183.5%
e) 152.3%
```

313) The average domestic investment in the year 2011 is what percent of the average investment in Transport during the given four years? a) 201% b) 65.34%

c) 125.45% d) 147.97%

e) 167.23% Answer:

309. Option C Total domestic investment in 2011 = 5000 +3000 + 4000 + 2000 + 2500 + 1500 + 3500 = Rs.21500 Crore Total foreign investment in 2011

= 2000 + 1600 + 2800 + 3000 + 2000 + 2500 + 1000 = Rs.14900 Crore So, required difference = 21500 - 14900 = Rs.6600 Crore

310. Option D Total investment in Metals = 4000 + 2800 + 3500

+ 2000 + 3200 + 2200 + 1500 + 500 = Rs.19700

Crore Total investment in Machinery = 2000 +

3000 + 2500 + 3000 + 3600 + 6000 + 1000 + 1500 = Rs.22600 Crore So, required ratio = 19700

: 22600 = 197 : 226 311. Option A

4000 + 1500 + 1000 + 4000 + 1200 + 2000 / 7 = 19700/7 = Rs.2814.28 Crore

Average domestic investment in 2014 = 6000 +

312. Option E Domestic investment in 2013 = 4000 + 5000 +

3200 + 3600 + 3000 + 1500 + 2400 = Rs.22700

Crore Foreign investment in 2011 = 2000 + 1600 + 2800 + 3000 + 2000 + 2500 + 1000 = Rs.14900

Crore = $22700 \times 100 / 14900$

= 152.3%

313. Option B Average domestic investment in 2011 =

Rs.21500/7 Crore Average investment in transport = 2500 + 2000

+ 1500 + 3200 + 3000 + 1600 + 4000 + 1000 / 4 = Rs.4700 Crore

So, required $\% = 21500 / 7 \times 4700 \times 100 =$

65.34%