### **Quantitative Aptitude**

1.	the child 5 years ago	was 20 years. The present age	
	a) 35 years d) Data inadequate	<ul><li>b) 40 years</li><li>e) None of these</li></ul>	c) 50 years
2.			etres wide is to be paved exactly with square the tile which could be used for the purpose? c) 42 cms
3.	0	onths. If after eight months, th	s.4000 and Rs.8000 respectively in a business. here was a gain of Rs.4005, then what will be
	a) Rs.890 d) Rs.1780	b) Rs.1335 e) None of these	c) Rs.1602
4.	In how many ways a and 10 women?	committee, consisting of 5 n	nen and 6 women can be formed from 8 men
	a) 266 d) 86400	b) 5040 e) None of these	c) 1176
5.	In a lottery, there an probability of getting	-	A lottery is drawn at random. What is the
	a) 1/10 d) 5/7	b) 2/5 e) None of these	c) 2/7
6.	A man is 24 years old present age of the son		, his age will be twice the age of his son. The
	a) 14 years d) 22 years	<ul><li>b) 18 years</li><li>e) None of these</li></ul>	c) 20 years
7.	A shopkeeper expects what was his profit?	s a gain of 22-1/2% on his co	ost price. If in a week, his sale was of Rs.392,
	a) Rs.18.20 d) Rs.88.25	b) Rs.70 e) None of these	c) Rs.72
8.	2	E the series $1 + (1 + 3) + (1 + 3)$	
	a) $\frac{n n+1}{2}$	b) $n^2$	$c)\frac{n+1(2n+1)}{6}$
	d) Data inadequate	e) None of these	0
9.		$64 \times 6.25$ is equal to	
9.		b) 0 00	(2)
9.	a) 0.9 d) 99	b) 0.99 e) None of these	c) 9

10. A boy goes to his school from his house at a speed of 3 km./hr and return at a speed of 2 km./hr. If he takes 5 hours in going and coming, the distance between his house and school is

a) 5 km
b) 5.5 km
c) 6 km



d) 6.5 km	e) None of these	
	<ul> <li>k in the same time in which B</li> <li>and C alone in 50 days, then B</li> <li>b) 20 days</li> <li>e) None of these</li> </ul>	and C together can do it. If A and B together alone could do it in: c) 25 days
12. If the circumradius of a) $\frac{\pi}{2}$ d) $\frac{2\pi}{3}$	an isoceless triangle ABC is eq b) $\frac{\pi}{3}$ e) None of these	to AB (= AC), then angle A is equal to $c)\frac{\pi}{6}$
<ul> <li>13. If 10, 12 and 'x' are possible?</li> <li>a) 7</li> <li>d) 13</li> </ul>	b) 12 e) 11	angle, how many integer values of 'x' are c) 9
<ul><li>14. A man can row upstream of the rate of current a) 6.5, 1.2 km/hr</li><li>d) 7.5, 1.8 km/hr</li></ul>		n at 10 kmph. Find man's rate in still water c) 1.5, 1.6 km/hr
<ul><li>15. Of three numbers who number is:</li><li>a) 30</li><li>d) 24</li></ul>	b) 60 e) 20	1/4 <sup>th</sup> of the sum of the other two. The first c) 36
<ul><li>16. If the ratio of boys to g</li><li>a) equal to 1</li><li>d) greater than or equal</li></ul>	b) greater than 1	o of girls to boys is G, then B + G is: c) less than 1
		whose income is 20% more than that of C. If ual income of A, B and C together. c) Rs.6872
sections were started.		24. After admitting new students, three new ions is 16 and there are 21 students in each c) 48
19. David obtained 76, 6		of 100) in English, Mathematics, Physics, c) 72
<ul> <li>20. On 6<sup>th</sup> March 2005 Mo</li> <li>a) Sunday</li> <li>d) Wednesday</li> </ul>	onday falls. What was the day o b) Saturday e) None of these	of the week on 6 <sup>th</sup> March 2004? c) Tuesday



21 At what an als the how	de ef e electrone incline	d at 15 minutes next 59
21. At what angle the han $52^{10}$		
a) $58\frac{1}{2}$ °	b) 64°	c) $67\frac{1}{2}^{\circ}$
a) $58\frac{1}{2}^{\circ}$ d) $72\frac{1}{2}^{\circ}$	e) None of th	ese
	can fill a tank in 20 and ng will it take to fill the t	30 minutes respectively. If both the pipes are used
a) 12 min	b) 15 min	c) 25 min
d) 50 min	e) None of these	
	-	o C for 4 years on simple interest at the same rate of n of them as interest. The rate of interest per annum
a) 5%	b) 7%	c) 7 1/8%
d) 10%	e) None of these	
	nission of 2.5% on the sa a sold through him on tha b) Rs.500 e) None of these	ales of cloth. If on a certain day, he gets Rs.12.50 as at day is worth c) Rs.750
25. The cost of carpeting The breadth of the roo		a carpet 75 cm wide at Rs.4.50 per metre is Rs.810.
a) 7 m	b) 7.5 m	c) 8 m
d) 8.5 m	e) None of these	
<ul><li>26. Which one of the folloa) (47 2 43)</li><li>d) Data inadequate</li></ul>	owing is the common fac b) (47 + 43) e) None of these	ctor of $(47^{43} + 43^{43})$ and $(47^{47} + 43^{47})$ ? c) $(47^{43} + 43^{43})$
		mean of the numbers 3, 11, 7, 9, 15, 13, 8, 19, 17, at should be the number in place of x? c) 17
28. Which of the followir a) (16, 62)	ng is a pair of co-primes? b) (18, 25)	c) (21, 35)
d) (23, 92)	e) None of these	
		os for every 7 leaps of the elephant, but 5 leaps of s the ratio of speeds of camel and elephant? c) 25 : 21
would invest Rs.6500 wants to be the worki	) for 6 months, B, Rs.84	nselves in a business venture. It was agreed that A 400 for 5 months and C, Rs.10,000 for 3 months. A e was to receive 5% of the profits. The profit earned profit. c) Rs.2800
<i>a)</i> 10.2010	e) itone of these	



31.	A number is doubled and 9 in number?	is added. If the resultant	t is trebled, it becomes 75. What is that
	a) 3.5	b) 6	c) 8
	d) Can't be determined	e) None of these	
32.			respectively. The ratio between A's age 4 ratio between A's age 4 years ago and B's
	a) 1:3	b) 2:1	c) 3:1
	d) 4:1	e) None of these	
33.	If Rs.2800 is 2/7 percent of the a) 800000	e value of a house, the wo b) 980000	rth of the house (in Rs.) is: c) 1000000
	d) 1200000	e) None of these	
34.	At what profit percent must ar loss of 30%?	n article be sold so that by	y selling at half that price, there may be a
	a) 25%	b) 36%	c) 40%
	d) 42%	e) None of these	
35.	In a bag, there are coins of 25 many 5p coins are there?	5p, 10p and 5p in the rat	io of 1:2:3. If there are Rs.30 in all, how
	a) 150	b) 50	c) 100
	d) 200	e) None of these	
36.			2:1, whereas the ratio between amounts ofit, how much amount did B receive? c) Rs.48400
37.			of work in 18 days. If the labourers work 6 ame piece of work in 30 days, will be: c) 22
38.	X can do a piece of work in 4 How long will they together ta		8 days and then Y finished it in 16 days.
	a) 13-1/3 days d) 56 days	<ul><li>b) 15 days</li><li>e) None of these</li></ul>	c) 20 days
39.	12 buckets of water fill a tank will be needed to fill the same	tank, if the capacity of ea	ch tank is 13.5 litres. How many buckets ch bucket is 9 litres?
	a) 8	b) 15	c) 16
	d) 18	e) None of these	
40.		uble the speed for the nex	moving at a speed of x kmph for the first at 20 minutes and then again moving at his al to:
	a) 31.2	b) 36	c) 40
	d) 52	e) None of these	
By Ran	nandeep Singh	BANK EXAMS <sup>L</sup> OCO	Page 4

### **Reasoning Ability**

41.		6	re are 15 children between R and M. What
	is M's position from the left and a) $14^{th}$	l of the row? b) 15 <sup>th</sup>	c) 13 <sup>th</sup>
	d) Can't be determined	e) None of these	c) 13
	d) can't be determined	e) None of these	
42.	In a certain code language 'how here' is written as 'na pa nika'.		en as 'kana ta da' and 'many are welcome that code language?
	a) ta	b) da	c) ta or da
	d) Data inadequate	e) None of these	
43.	positions of the $2^{nd}$ and the $6^{th}$ of be the $2^{nd}$ digit from the right end a) 5	digits are interchanged a ad after the rearrangement b) 3	* 83591427 are interchanged, similarly the nd so on then which of the following will nt? c) 9
	d) 2	e) None of these	
44.	How many such pairs of letters letters between them in the word		ADJUSTING each of which has as many bet?
	a) None	b) One	c) Two
	d) Three	e) More than three	
45.	How many meaningful English once in each word?	words can be formed with	ith the letters LBAE using each letter only
	a) None	b) One	c) Two
	d) Three	e) More than three	
46.	In a certain code BUILDER is v a) BTFKHOJ	vritten as JVCKSFE. Ho b) JOHKBFT	w is SEALING written in that code? c) TFBKHOJ
	d) BFTKJOH	e) None of these	c) ITBRIIOJ
	u) bi i Kjoli	c) None of these	
47.	If 'R' denotes '÷', 'T' denotes '	", 'M' denotes '+' and	'W' denotes '×', then
	27 T 15 R	3 W 4	M $6 = ?$
	a) 7	b) 13	c) 🛙 23
	d) 1	e) None of these	
48.	In a certain code WAVE is wr written in that code?	itten as '5%3*' and WI	NS is written as '59@©'. How is SANE
	a) ©9@*	b) *%©@	c) ©@%*
	d) ©%@*	e) None of these	
49.	Which of the following is the rigiven below?	niddle digit of the 3 <sup>rd</sup> hi	ghest among the five three digit numbers
	368 931 472 715	647	
	a) 6	b) 3	c) 7
	/	, ·	/
	d) 1	e) 4	



50.	Among P, Q, R, S and T each than P and Q. Who among then a) R d) Data inadequate	<b>e</b>	t, Q is shorter than only T and S is shorter c) P
	ions ( <b>Q. 51-55</b> ) Study the follow R 3 J @ K © D F 6 9 W 4 * N J		ly and answer the questions given below. U G
51.	Which of the following is the 6 a) J d) E	<sup>th</sup> to the left of the 20 <sup>th</sup> fi b) Q e) None of these	com the left end of the above arrangement?
52.	How many such consonants a preceded by a symbol and imm a) None d) Three		rangement, each of which is immediately umber? c) Two
53.	If all the symbols and all the following will be the 12 <sup>th</sup> from a) 9 d) Y		om the above arrangement, which of the c) P
54.	How many such numbers are preceded by a letter but not imit a) None d) Three		angement, each of which is immediately letter? c) Two
55.	What should come in the place arrangement? MRJ ©F9 *E2 ? a) Y5I d) YIZ	<ul><li>e of question mark (?) i</li><li>b) YIQ</li><li>e) None of these</li></ul>	n the following series based on the above c) A5Q

Directions (Q. 56-60) In each of the questions below are given four statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

56. Statements:	Some pencils are windows. All windows are roads. Some roads are cups.
	All cups are chains.
<b>Conclusions:</b>	I. Some chains are pencils.
	II. Some cups are pencils.
	III. Some chains are windows.
	IV. Some roads are pencils.
a) None follow	WS
b) Only II foll	ows

- c) Only IV follows
- d) Only III and IV follow



e	) Only III fol	lows			
57. <b>S</b>	tatements:	Some beds are mirrors. Some mirrors are dolls. Some dolls are cheques. Some cheques are pins.			
C	Conclusions:	I. Some pins are dolls. II. Some cheques are beds. III. Some cheques are mirrors. IV. Some dolls are beds.			
a	·	vs			
	) Only I follo				
	<ul><li>) Only II follo</li><li>) Only III follo</li></ul>				
	) Only IV fol				
58. <b>S</b>	tatements:	All chocolates are holders.			
		No holder is lamp.			
		Some lamps are desks. All desks are pens.			
C	Conclusions:	I. Some pens are holders.			
		II. Some desks are lamps.			
		III. No pen is holder.			
a	) Only I follo	IV. Some pens are chocolates.			
	) Only II follo				
c	) Only III fol	lows			
	•	I or III follows			
e	) Only either	I or III and II follow			
59. <b>S</b>	tatements:	All glasses are rooms.			
		Some rooms are planes.			
		All planes are ducks.			
C	Conclusions:	Some ducks are lanterns. I. Some lanterns are planes.			
C	onclusions.	II. Some ducks are rooms.			
		III. Some rooms are glasses.			
		IV. Some ducks are glasses.			
a) b	•				
c	· •	nd III follow			
d	-	and IV follow			
e	) None of the	se			
60. <b>S</b>	tatement:	Some chairs are tents.			
		Some tents are jugs.			
		All jugs are glasses.			
ſ	Conclusions:	All glasses are pots. I. Some pots are tents.			
C		II. Some pots are chairs.			
		III. Some glasses are chairs.			
Dama	ndeen Singh				



IV. Some glasses are tents.

a) Only I and II follow

b) Only II and III follow

- c) Only I and III follow
- d) Only I and IV follow
- e) None of these

**Directions (Q. 61-65)** In each question below is given a group of letters followed by four combinations of digits/symbols numbered (a), (b), (c) and (d). You have to find out which of the combinations correctly represents the group of letters based on the following coding system and the conditions that follow and mark the number of that combination as your answer. If none of combinations correctly represents the group of letter, mark (e) i.e., 'None of these' as your answer.

Letter	W	Р	J	Q	E	Т	Ι	А	U	F	D	В	V	Μ	Η
Digit/Symbol	5	6	9	1	2	3	@	4	©	8	%	*	7	#	\$
code															

#### **Conditions:**

- (i) If the 1<sup>st</sup> letter is a consonant and the 4<sup>th</sup> letter is a vowel both are to be coded as the code for the vowel.
- (ii) If the  $2^{nd}$  letter is a vowel and the last letter is a consonant both are to be coded as !.
- (iii) If both the 1<sup>st</sup> and the last letters are consonants both their codes are to be interchanged.

61. MBUVWE a) #*©#52 d) #!©75!	b) 7*©#52 e) None of these	c) #©*752
62. AJBMFU a) 49*48© d) ©9*#84	b) #9*#8© e) None of these	c) 49*#8©
63. AEIMVH a) 42@#7\$ d) 4!@#7!	b) 42@47\$ e) None of these	c) #2@47\$
64. THAFIQ a) 3\$48@3 d) 3\$48@1	b) 1\$48@3 e) None of these	c) 1\$48@1
65. WMEIJU a) @#2@9© d) 5#259©	b) 5#2@9© e) None of these	c) @#259©

**Directions** (**Q. 66-70**) A word and number arrangement machine, when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and rearrangement.

Input:	17 put show on 39 27 85 gold
Step I:	show 17 put on 39 27 85 gold
Step II:	show 85 17 put on 39 27 gold
Step III:	show 85 put 17 on 39 27 gold



Step IV:show 85 put 39 17 on 27 geStep V:show 85 put 39 on 17 27 geStep VI:show 85 put 39 on 27 17 geStep VII:show 85 put 39 on 27 goldAnd step VII is the last step of the rearrangAs per the rules followed in the above stepstep for the given input.	d d 7						
<ul> <li>66. Input: glass full 15 37 water now Which of the following will be Step a) water 85 now 67 full glass 15 37 b) water 85 now 67 glass full 15 37 c) water 85 now 67 glass full 15 37 d) There will be no such step e) None of these</li> </ul>							
<ul> <li>67. Step II of an input is: ultra 73 12 16 Which of the following steps will b a) VIII b) IX d) VI c) None of</li> </ul>	the last but one? c) VII						
A A	<ul> <li>b) voice win 75 15 39 store gap 26</li> <li>c) 15 75 win voice store gap 26</li> <li>d) Can't be determined</li> </ul>						
<ul> <li>69. Step II of an input is: tube 83 49 34 How many steps will be required to a) Four</li> <li>b) Five</li> <li>c) Three</li> <li>c) None of</li> </ul>	complete the rearrangement? c) Six						
<ul> <li>70. Input: hunt for 94 37 good 29 48 be How many steps will be required to a) Four</li> <li>d) Seven</li> <li>e) None of</li> </ul>	complete the rearrangement? c) Six						
Directions (Q. 71-75) Study the following	formation carefully and answer the question given below.						
A, B, C, D, E, F, G and H are sitti who is 3 <sup>rd</sup> to the right of F. C is 2 <sup>nd</sup> to the le	g around a circle facing the centre. B is $2^{nd}$ to the right of D of A who is $2^{nd}$ to the left of F. G is $3^{rd}$ to the right of E.						
persons? a) GCD b)	GH c) EFH						
<ul> <li>d) ABE</li> <li>e)</li> <li>72. Who is 3<sup>rd</sup> to the right of H?</li> </ul>	one of these						
a) G b)	c) C						
By Ramandeep Singh	Page 9						

d) Data in	adequate	e) None of these	
73. Who is to	the immediate right	of A?	
a) B	0	b) E	c) F
d) Data in	adequate	e) None of these	,
74. What is H	's position with resp	ect to B?	
a) 5 <sup>th</sup> to th		b) $3^{rd}$ to the left	c) $5^{\text{th}}$ to the left
d) $3^{rd}$ to the		e) $4^{th}$ to the left	
75. Who is to	the immediate left of	f G?	
a) H		b) F	c) D
d) Data in	adequate	e) None of these	
76. If 'PARK	' is coded as '5394',	'SHIRT' is coded as '17	'698' and 'PANDIT' is coded as '532068',
how woul	d you code 'NISHAI	R' in that code language?	
a) 266734		b) 231954	c) 201739
d) 261739	•	e) None of these	
77. If 'GERM	IAN' is coded as 126	5534, 'FOOD' is called a	as 9770 and CORN is coded as 8T64, then
what will	be the code for 'FRA	NCE'?	
a) 961063		b) 963482	c) 963428
d) 964382	·	e) None of these	

**Directions** (Q. 78-80) Study the following statements A, B, C, D and E and then answer the questions that follow.

A.	1, 5, 9 means	:	'you better go'
В.	1, 6, 7 means	:	'better come here'
C.	5, 6, 7 means	:	'you come here'
D.	1, 5, 6 means	:	'better you here'
E.	3, 7, 9 means	:	'come and go'

78. Which of the following groups of minimum statements are necessary to find the code number of 'better'?

	a) A and B	b) D and E	c) C and E
	d) B and E	e) None of these	
79.	Which numeral means '	and'?	
	a) 6	b) 9	c) 3
	d) 7	e) None of these	
80.	Which numeral is used	for 'go'?	
	a) 9	b) 5	c) 7
	d) Can't be determined	e) None of the	ese



#### **English Language**

# Directions (Q. 81-90) Read the following passage carefully and answer the questions given below it.

A long time ago, on a big tree in the lap of the mountain, lived a bird named Sindhuka. It was a **rather** special bird because its droppings turned into gold as soon as they hit the ground.

One day, a hunter came to the tree in search of prey and he saw Sindhuka's droppings hit the ground and turn into gold. The hunter was struck with wonder. He though, "I have been hunting birds and small animals since I was a boy, but in all my 80 years, I have never seen such a miraculous creature. He decided that he had to catch the bird somehow. He climbed the tree and **skillfully** set a trap for the bird. The bird, quite unaware of the danger it was in, stayed on the tree and sang merrily. But it was soon caught in the hunter's trap. The hunter immediately seized it and shoved it into a cage.

The hunter took the bird home joyfully. But as he had time to think over his good fortune later, he suddenly realised, "If the king comes to know of this wonder, he will certainly take away the bird from me and he might even punish me for keeping such a rare treasure all to myself. So it would be safer and more honourable if I were to go to the king and present the unique bird to him," The next day, the hunter took the bird to the king and presented it to him in court with great **reverence.** The king was delighted t o receive such an unusual and rare gift. He told his courtiers to keep the bird safe and feed it with the best bird food available.

The king's prime minister though, was **reluctant** to accept the bird. He said "O Rajah, how can you believe the word of a foolish hunter accept this bird? Has anyone in our kingdom ever seen abird dropping gold? The hunter must be either crazy or telling lies. I think it is best that you **release** the bird from the cage." After a little thought, the king felt that his prime minister's words were correct. So he ordered the bird to be released. But as soon as the door of the cage was thrown open, the bird flew out, perched itself on a nearby doorway and defecated. To everyone's surprise, the dropping immediately turned into gold. The king mourned his loss.

c) Pride

- 81. Which of the following is possible the most appropriate title for the story?
  - a) The Skilled Hunter
  - b) The King's Prime Minister
  - c) The King's Defeat
  - d) The Bird with the Gold Dropping
  - e) The Trials and Tribulations of the Foolish Bird Sindhuka
- 82. Which of the following emotions made the hunter gift the bird to the king?

a) Respect	b) Joy
d) Fear	e) Awe

- 83. Which of the following is true according to the story?
  - a) Birds like Sindhuka were very common in the area near the mountain
  - b) Sindhuka remained caged for the rest of its life
  - c) Sindhuka was unaware of the trap laid by the hunter
  - d) The King, when told to not accept the bird, did not listen to his Prime Minister
  - e) All are true
- 84. Why was the king's Prime Minister reluctant to accept the bird?
  - a) He believed that the bird would die if caged
  - b) He know about the hunter's habit of lying
  - c) He believed that the bird would bring bad luck to the king



- d) His sources had informed him that the hunter was crazy
- e) None of these

85. How did the hunter find Sindhuka?

- a) He had read stories about the bird and had set traps at various locations in the city
- b) He followed the bird's droppings
- c) He was on the lookout for a prey when he chanced upon it
- d) People from the city had informed him about the bird's whereabouts
- e) He was attracted by the birds calls

**Directions (Q. 86-88)** Choose the word which is most similar in meaning to the word/group of words printed in bold as used in the passage.

<ul><li>86. Rather</li><li>a) Regular</li><li>d) But</li></ul>	b) Quite e) Known	c) Instead
<ul><li>87. Release</li><li>a) Free</li><li>d) Let expire</li></ul>	b) Vacate e) Make public	c) Vent
<ul><li>88. Reverence</li><li>a) Respect</li><li>d) Hope</li></ul>	b) Detail e) Remembrance	c) Astonishment

**Directions (Q. 89-90)** Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.

89.	Reluctant		
	a) True	b) Clever	c) Averse
	d) Hesitant	e) Keen	
90.	Skilfully		
	a) Angrily	b) Haphazardly	c) Highly
	d) Cheaply	e) Deftly	

Directions (Q. 91-95): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

A. The researchers in these companies claim that they could do better by allowing their employees to doze off at work place.

c) C

- B. The dreams, while at work, are thus helpful to solve crucial problems.
- C. Would you believe that some UK based companies are arranging for bed at the work place?
- D. The reason, they claim, could be that dreams produce creative solutions.
- E. We only hope that these crucial problems in UK are different from those of ours.
- F. But it is true and is considered as a step to improve quality of their products.

91. Which of the following should be the First sentence after rearrangement?

- b) B
- d) D e) None of these

By Ramandeep Singh

a) A



92. Which of the following a) A d) D	g should be the Third sen b) B e) None of these	tence after rearrangement? c) C
93. Which of the following	g should be the Fourth se	ntence after rearrangement?
a) A	b) B	c) C
d) D	e) None of these	, ,
94. Which of the following	g should be the Fifth sent	tence after rearrangement?
a) A	b) B	c) C
d) D	e) None of these	
95. Which of the following	g should be the Sixth sen	tence after rearrangement?
a) A	b) B	c) C
d) E	e) None of these	

Directions (Q. 96-100) Read this sentence to find out whether there is any grammatical mistake/error in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark 'No error' as your answer. (Ignore the errors of punctuation if any).

- 96. Attributing rise in inflation partly for withholding of food stocks by traders/the minister said that/he was committed/to easing this supply side bottleneck.
  - a) Attributing rise in inflation partly for withholding of food stocks by traders
  - b) The minister said that
  - c) He was committed
  - d) To easing this supply side bottleneck.
  - e) No error
- 97. India's largest utility vehicle and tractor maker/is again in the race to acquire/for stake in Swedish company/which is a premium car maker.
  - a) India's largest utility vehicle and tractor maker
  - b) Is again in the race to acquire
  - c) For stake in Swedish company
  - d) Which a premium car maker
  - e) No error
- 98. With sale of branded or premium petrol becoming almost nil/due to high duties,/a government appointed panel has recommended/slashing excise duty to make them at par with regular fuel.a) With sale of branded or premium petrol becoming almost nil
  - b) Due to high duties
  - c) A government appointed panel has recommended
  - d) Slashing excise duty to make them at par with regular fuel
  - e) No error
- 99. Keeping in mind/that power cuts are on different days in different areas/the change in the factory law would enable individual factories within an area/to determining their own weekly holidays.a) Keeping in mind
  - b) That power cuts are on different days in different areas
  - c) The change in the factory law would enable individual factories within an area
  - d) To determining their own weekly holidays



e) No error

- 100. Police officers have refused on identify the bystander,/who is the only eyewitness to the crime,/but have said that the investigating team would explore/if he could be a witness in the case.
  - a) Police officers have refused on identify the bystander
  - b) Who is the only eyewitness to the crime
  - c) But have said that the investigating team would explore
  - d) If he could be a witness in the case
  - e) No error

**Directions (Q. 101-105):** Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.

- 101. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
  - a) Adventureb) Demonstrationc) Environmentd) Innosente) All Correct
- 102. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.

	5 1	
a) Limitasion	b) Dependable	c) Miniature
d) Qualitative	e) All Correct	

103. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.

a) Lucrative	b) Ancestral	c) Performanse
d) Incidentally	e) All Correct	

104. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.

a) Futility	b) Separasion	c) Embarrassment
d) Positively	e) All Correct	

- 105. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
  - a) Tournamentb) Enhancementc) Amazinglyd) Continuatione) All Correct

Directions (Q. 106-110): Rearrange the following six sentences (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

A. Therefore, it is important to source a large part of economic growth in agriculture, in rural nonagricultural activities and in productive expansion of the informal sector which all have high employment elasticities, as well as in an export strategy based on labour intensive exports.



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В.	It is important because it creates more resources and has the potential of creating more space for
	the involvement of the poor.

C. If the growth is sourced upon those sectors of the economy or those activities that have a natural tendency to involve the poor in their expansion, such growth helps poverty eradication.

D. Economic growth is important.

E. But this involvement depends on the sources of growth and the nature of growth.

106. a) A d) D	Which of the following should be the First sentence after rearrangement? b) B c) C e) E
107.	Which of the following should be the Second sentence after rearrangement?
a) E	b) D c) C
d) B	e) A
108.	Which of the following should be the Third sentence after rearrangement?
a) A	b) B c) C
d) D	e) E
109.	Which of the following should be the Fourth sentence after rearrangement?
a) E	b) D c) C
d) B	e) A
110.	Which of the following should be the Fifth sentence after rearrangement?
a) A	b) B c) C
d) D	e) E
,	

**Directions (Q. 111-120)** In the following passage there are blanks each of which has been numbered. These numbers are printed below the passage and against each five words have been suggested, one of which fills the blank appropriately. Find out the appropriate word in each case.

Traditional bank architecture is based on bank branches. These branches ensure the physical (111) of a customer's savings. A customer may go there to deposit and withdraw money, (112) loans and (113) in other financial transactions. In the past two decades banking architecture has changed – the Automated Teller Machine (ATM) has been a big (114) and credit and debit cards have created new financial spaces. (115) the bank branch has remained the bedrock of banking system – after all a person needs a bank account in a branch before he can operate a debit or ATM card. This may be about to change as technocrats now (116) cell phones as the new architecture of virtual banks. This has the potential to make branches (117). Cell phone banking looks especially relevant for India since it can penetrate the countryside cheaply and (118). The World over cell phones are spreading at a (119) rate and in India alone new cell phone connections are growing at the rate of six million a month a rate of customer (120) that no bank can dream of.

111.	a) confidentiality d) security	b) guarantee e) presence	c) knowledge
112.	a) disburse d) advance	b) sanction e) credit	c) negotiate
113.	a) enable d) interact	b) engage e) operate	c) pursue
By Ramand	eep Singh		

114.	a) luxury d) hurdle	b) innovation e) consequence	c) drawback
115.	a) Yet d) Although	b) Until e) Even	c) Despite
116.	a) engineer d) realize	b) assess e) display	c) view
117.	a) retreat d) obsolete	b) expired e) extant	c) essential
118.	<ul><li>a) indiscriminately</li><li>d) occasionally</li></ul>	b) effectively e) compulsorily	c) moderately
119.	<ul><li>a) competitive</li><li>d) gradual</li></ul>	b) projected e) proportionate	c) phenomenal
120.	a) satisfaction d) base	b) relationship e) expansion	c) discount

#### **General Awareness**

121. Which party became largest political party in all over the World

a) Congress by crossing the members of 20 Crore

b) BharatiyaJanata Party by crossing the member figures of 8.8 Crore

c) Samajwadi Party by crossing the members of 15 Crore

d) AamAadmi Party by crossing the members of 25 Crore

e) None of these

122. Who appointed as Crown Prince of Saudi Arabia

a) Mohammad Bin Abdullah

b) Abdullah Abdullah

c) Mohammad Bin Khalifa

d) Salman Syed Khan

e) Mohammed bin Nayef

123. Who became 4<sup>th</sup> Indian Shooter qualify for Rio Olympics 2016

a) AbhinavBindra

b) ApurviChandela

c) GaganNarang

d) JituRai

e) None of these

124. Who is the Prime Minister of Qatar?

a) Mohammed Bin Nayef

b) Ali Akbar Raza

c) MansoorRaza



- d) Abdullah bin Naseer bin Khalifa Al Thani
- e) None of these
- 125. 'PropTiger.com' acquired which famous site
  - a) bigbazaar.com
  - b) facebook
  - c) google
  - d) makaan.com
  - e) None of these

#### 126. Who became President of Federation Internationale de Football Association (FIFA) a) NandanNilekani

- b) Ban ki Moon
- c) LalitModi
- d) SeppBlatter
- e) None of these

#### 127. Who is the Governor of State of Odisha?

- a) Shiv Raj Patil
- b) Dr.S.C. Jamir
- c) Shiela Dixit
- d) Ram Naik
- e) None of these

# 128. Prannoy Roy awarded with RedInk Lifetime Achievement Award, he is the Executive Co-Chairman of which famous TV News Channel

- a) ABP News
- b) AajTak
- c) Zee News
- d) NDTV
- e) None of these

#### 129. World No Tobacco Day observed on which date?

- a) 31<sup>st</sup> May
- b) 01<sup>st</sup> May
- c) 05<sup>th</sup> June
- d) 15<sup>th</sup> April
- e) None of these

#### 130. Who is the President of China

- a) Li Keqiang
- b) Lou Jiwei
- c) Xi Jinping
- d) Chang Wanquan
- e) None of these

131. Which Indian State Government launched the scheme 'Niramaya'

- a) Punjab
- b) Haryana
- c) Himachal Pradesh
- d) Jammu & Kashmir



e) Odisha

- 132. Name the web portal launched by Government of India recently for exchange information on missing and found children
  - a) Niramaya
  - b) KisanVikasPatra
  - c) KhoyaPaya
  - d) Healthy India
  - e) None of these

#### 133. Who was MalliMastanBabu who found dead in Andes Mountains

- a) Famous singer of Pakistan
- b) Cricketer of Bangladesh
- c) Mountaineer of India
- d) Painter of India
- e) None of these

#### 134. World Press Freedom Day 2015 observed globally under which theme

- a) Let's the Journalism Drive
- b) Basic Necessity: Freedom
- c) Day of Freedom
- d) Non Violence AgainstPress
- e) Let Journalism Thrive
- 135. What is the full form of AIFF
  - a) All India Fishermen Federation
  - b) All India Fathers Federation
  - c) All India Figures Federation
  - d) All India Forensic Federation
  - e) All India Football Federation

#### 136. According to the report of Global Resilience Index 2015, What is India's rank

- a) 91<sup>st</sup>
- b) 11<sup>th</sup>
- c) 1<sup>st</sup>
- d) 119<sup>th</sup>
- e) None of these

#### 137. Baleshwar Ram died recently, who was he

- a) Former President of India
- b) Former Member of Parliament of 7<sup>th</sup>LokSabha
- c) Former Member of Parliament of 11thLokSabha
- d) Former Governor of Maharashtra
- e) None of these
- 138. Who won Men's Singles title French Open 2015
  - a) Roger Federer
  - b) StanislasWawrinka
  - c) Andy Murray
  - d) James Anderson
  - e) None of these



- 139. Who appointed as Chairman of Indian Premier League Governing Council
  - a) LalitModi
  - b) Rajeev Shukla
  - c) SharadPawar
  - d) AjitPawar
  - e) None of these

# 140. Which famous Bollywood actor sentenced with 5 years jail in hit and run case a) Shah Rukh Khan

- b) Aamir Khan
- c) Salman Khan
- d) Saif Ali Khan
- e) None of these

#### 141. Who appointed as Central Vigilance Commissioner

- a) K.V. Chowdary
- b) H.L. Dattu
- c) R.K. Dhawan
- d) Chander Mohan
- e) None of these
- 142. The first woman in space was
  - a) Mother Teresa
  - b) KalpanaChawla
  - c) Vijay Lakshmi Pandit
  - d) Elizabeth II
  - e) Valentina Tereshkova

#### 143. Who awarded with Freedom of Expression Courage Award 2015

- a) Harimohan Das Gupta
- b) YousufRazaGilani
- c) Charlie Hedbo
- d) Forbes
- e) None of these

#### 144. Which bank launched the scheme namely 'PayZapp' recently

- a) HDFC Bank Ltd.
- b) ICICI Bank Ltd.
- c) Kotak Mahindra Bank Ltd.
- d) State Bank of India
- e) None of these
- 145. Who is the President of JK Group
  - a) Bharat HariSinghania
  - b) Bharti Mittal
  - c) SunandaKochhar
  - d) KripleshMiglani
  - e) None of these
- 146. Who is the Author of the book namely 'Delhi to Islamabad'



- a) Milkha Singh
- b) Mohammad Hamid Ansari
- c) AtalBihari Vajpayee
- d) Prof. Sham Sunder Rao
- e) Prof. Bhim Singh

147. What is the regional language of the State of Kerala

- a) Dogri
- b) Urdu
- c) Hindi
- d) Kannada
- e) Malayalam

148. Which Indian city named as National Earth Hour Capital for the year 2015

- a) Surat, Gujarat
- b) Shillong, Meghalaya
- c) Thane, Maharashtra
- d) Shimla, Himachal Pradesh
- e) None of these

149. Which gas used in manufacture of vanaspati from vegetable oil

- a) Hydrogen
- b) Nitrogen
- c) Carbon Dioxide
- d) Oxygen
- e) None of these

150. Who became 1<sup>st</sup> wicket keeper of England to score a century in his debut match a) Jos Buttler

- b) Jonny Bairstow
- c) Matt Prior
- d) Tim Ambrose
- e) None of these

151. The idea of machine independent programming languages, which led to the development of COBL, was popularised by

- a) Dennis Ritchie
- b) Grace Hopper
- c) John Burden
- d) Steve Jobs
- e) None of these

#### 152. Banking Ombusdman is appointed by

- a) Government of India
- b) State governments
- c) RBI
- d) ECGC
- e) None of these



- 153. A banknote which has become dirty due to usage and includes a two-piece note pasted together wherein both t he pieces presented belong to the same note, and form the entire note, is termed as
  - a) Soiled banknote
  - b) Mutilated banknote
  - c) Imperfect banknote
  - d) Counterfeit banknote
  - e) None of these
- 154. Indian currency notes upto which of the following denominations are legal tender in Nepal and Bhutan?
  - a) Up to Rs.50
  - b) Up to Rs.100
  - c) Up to Rs.500
  - d) Up to Rs.1000
  - e) None of these

155. The abbreviation ASBA stands for \_\_\_\_\_

- a) Applications Supported by Blocked Account
- b) Applications Supported by Bank Account
- c) Applications Sustained by Blocked Amount
- d) Applications supported by Blocked Amount
- e) None of these
- 156. Despite accepting deposits and giving loans, the operation of which of the following entities do not come under the purview of the Reserve bank of India as of now?
  - a) Regional Rural Banks
  - b) Cooperative Credit Societies
  - c) Payment Banks
  - d) Non-Banking Finance Companies
  - e) None of these
- 157. Which of the following banks raised about Rs.200 Crore of Tier II capital and another Rs.225 through perpetual Bonds a few months back?
  - a) ICICI Bank Ltd.
  - b) IDBI Bank
  - c) Bank of India
  - d) Bank of Maharashtra
  - e) None of these
- 158. After maturity of plan B if the amount along with interest is reinvested in plan A. What will be the maturity amount after a period of 24 months?
  - a) Rs.27,500
  - b) Rs.27,850
  - c) Rs.28,500
  - d) Rs.28,750
  - e) None of these
- 159. We, every now and then read in the newspapers that some banks are earning good profits while some are not doing so well. The major part of the bank's profit generally comes from which of the following activities?



- a) Providing banking services like opening accounts, providing safe deposit vaults etc.
- b) Remittance facilities collecting cheques etc.
- c) Interest on loans, the investment which banks make, by using money of the depositors
- d) Only A
- e) None of these
- 160. A country can make its exports to foreign countries cheaper with which of the following methods?
  - a) Reducing their domestic prices
  - b) Reducing the foreign exchange rate on its money
  - c) Putting a ban on import of foreign goods
  - d) Only A
  - e) None of these

### **Computer Knowledge**

<ul><li>161. C' in CPU denotes</li><li>a) Central</li><li>d) Computer</li></ul>	<ul><li>b) Common</li><li>e) None of these</li></ul>	c) Convenient
162. Which of the following	, e,	
a) supercomputer d) PDA	<ul><li>b) personal computer</li><li>e) None of these</li></ul>	c) Laptop
	of a folder in Windows Explorer	
a) click on it	b) collapse it	c) name it
a) click on it d) give it a password	e) None of these	
164. The CPU comprises of	Control, Memory and unit	S
a) Microprocessor	b) Arithmetic/Logic	c) Output
d) ROM	e) None of these	_
165 is the most impo	rtant/powerful computer in a typi	cal network
d) Network station	<ul><li>b) Network client</li><li>e) None of these</li></ul>	
166. A(n) appearing		
a) anchor	b) URL	c) hyperlink
d) reference	e) None of these	
167. Which of the following running programs?	refers to the rectangular area for	displaying information and
a) Desktop	b) Dialog box	c) Menu
d) Window	e) None of these	
168is a windows		
-	l disk space to optimize operation	
a) Backup	b) Disk cleanup	c) Disk defragmenter
d) Restore	e) None of these	



a) Anomaly	b) Shock	c) Spike
d) Virus	e) None of these	
170. The software that is use	ed to create text-based documen	ts are referred to as
a) DBMS	b) Suites	c) Spreadsheets
d) Word processors	e) None of these	
171 devices cor	nvert human understandable data	a and programs into a form that the
computer can process.		
a) Printing	b) Output	c) Solid state
d) Input	e) None of these	
172. Allows users to upload	files to an online site so they ca	n be viewed and edited from
another location		
a) General purpose applications	S	
b) Microsoft Outlook		
c) Web-hosted technology		
d) Office live		
e) None of these		
173. What feature adjusts th	e top and bottom margins so that	t the text is centered vertically on
the printed page?	1 0	5
a) Vertical justifying		
b) Vertical adjusting		
c) Dual centering		
d) Horizontal centering		
e) None of these		
174. Which of these is not a	means of personal communicat	ion on the internet?
a) Chat	b) Instant messaging	c) Instanotes
d) Electronic mail	e) None of these	,
175. What is the overall terr	n for creating editing, formatting	g, storing, retrieving and printing a
text document?		
a) Word processing	b) Spreadsheet design	c) Web design
d) Database management	e) None of these	
176. Fourth generation mob	ile technology provides enhance	ed capabilities allowing the transfer
of both data, including f	ull-motion video, high-speed int	
conferencing.		
a) video data and information		
b) voice and non-voice		
c) music and video		
1) $-1$ $1$ $-1$ $1$ $1$ $1$		
<ul><li>d) video and audio</li><li>e) None of these</li></ul>		

\_\_\_\_\_ is a form of denial of service attack in which a hostile client repeatedly sends 177. SYN packets to every port on the server using fake IP addresses.

- a) Cybergaming crime
- b) Memory shaving



- c) Syn flooding
- d) Software piracy
- e) None of these

178. Which of these is a point and draw device?

a) Mouse

d) CD-ROM

b) Scannere) None of these

c) Printer

- 179. A set of rules for telling the computer what operations to perform is called a a) procedural language
  - b) structures
  - c) natural language
  - d) programming language
  - e) None of these
- 180. A detailed written description of the programming cycle and the program, along with the test results and a printout of the program is called
  - a) documentation
  - b) output
  - c) reporting
  - d) spec sheets
  - e) None of these
- 181. Forms that are used to organize business data into rows and coloumns are called
  - a) transaction sheets
  - b) registers
  - c) business forms
  - d) spread sheets
  - e) None of these

182. In power point, the header and footre button can be found on the insert tab in what group?a) Illustrations group

- b) Object group
- c) Text group
- d) Tables group
- e) None of these

183.

3. A(n) \_\_\_\_\_ is a set of programs designed to manage the resources of a computer, including starting the computer, managing programs, managing memory and coordinating tasks between input and output devices.

- a) application suite
- b) compiler
- c) input/output system
- d) operating system
- e) None of these

184. A typical slide in a slide presentation would not include

- a) photo images charts, and graphs
- b) graphs and clip art
- c) clip art and audio clips
- d) full motion video
- e) None of these



<ul> <li>185. The PC product</li> <li>a) spreadhsheet</li> <li>b) word processing doct</li> <li>c) presentation mechand) database record manee) None of these</li> </ul>	ument ism	rganized in rows and coloumn is called a
<ul><li>a) exponentiation, addi</li><li>b) addition or subtraction</li><li>c) multiplication or div</li></ul>	of parentheses, the order of operation of subtraction, muliplication of on, multiplication or division, exponentiation, addition or siplication or division, addition of siplication or division, addition of siplication or division, addition of signature.	of division onentiation subtraction
187. To find the Pas	te Special option, you use the clip	board group on the tab of
power point		
a) Design	b) Slide show	c) Page layout
d) Home	e) None of these	
188. A(n) pro way.	ogram is one that is ready to run an	nd does not need to be altered in any
a) Interpreter	b) High level	c) Compiler
d) Executable	e) None of these	
	isk by some of the websites you vi	rary internet files, are written to sit.
190. What is the eas revenues, profits, and g		enues, profits, gross margin, to read
	e	the gross, then type the word and
b) Use the insert mode, by a space	position the cursor after the g in g	gross, then type the word and followed
	de, position the cursor before the g	g in gross, then type the word and
followed by a space		
d) None of these		
191. A program eith download over the inte		lable in digital format for automatic
a) Wiki	b) Broadcast	c) Vodcast
d) Blog	e) None of these	
192. Which power p	oint view displays each slide of th	e presentation as a thumbnail and is

192. Which power point view displays each slide of the presentation as a thumbnail and is useful for rearranging slides?

a) Slide sorter	b) Slide show	c) Slide master



d) Notes page	e) None of these				
193. Different components	on the motherboard of a PC unit	are linked together by se ts of			
1	nes. What are these lines called?				
a) Conductors	b) Buses	c) Connectors			
d) Consecutives	e) None of these				
194. What is the name given video, and/or animation?	n to those applications that comb	ine text, sound, graphics, motion			
a) Motionware	b) Anigraphics	c) Videoscapes			
d) Multimedia	e) None of these	_			
<ul> <li>195. A USB communication device that supports data encryption for secure wireless communication for notebook users is called a <ul> <li>a) USB wireless network adapter</li> <li>b) wireless switch</li> <li>c) wireless hub</li> <li>d) router</li> <li>e) None of these</li> </ul> </li> <li>196. A(n) language reflects the way people think mathematically. <ul> <li>a) cross-platform programming</li> <li>b) 3GL business programming</li> </ul> </li> </ul>					
c) event driven programming d) functional					
e) None of these					
197. When entering text wit	hin a document, the Enter key is	normally pressed at the end of			
a) Line	b) Sentence	c) Paragraph			
d) Word	e) None of these				
198. When a real time telep computers, it is called a) a chat session	hone call between people is made	e over the Internet using			

- b) an e-mail
- c) an instant message
- d) internet telephony
- e) None of these

199. Which of the following is the first step in sizing a window?

- a) Point to the title bar
- b) Pull down the view menu to display the toolbar
- c) Point to any corner or border
- d) Pull down the view menu and change to large icons
- e) None of these

200. Which of the following software could assist someone who cannot use their hands for computer input?

a) Video conferencing



- b) Speech recognition
- c) Audio digitizer
- d) Synthesizer
- e) None of these

#### Solutions:

- Sum of the present ages of husband, wife and child = (27 x 3 + 3 x 3) years = 90 years. Sum of the present ages of wife and child = (20 x 2 + 5 x 2) years = 50 years. Husband's present age = (90 - 50) years = 40 years.
- 2. Largest size of the tile. HCF of 378 cm and 525 cm = 21 cms.

3. Murugan : Prasanna : Arun  $= (8000 \times 6) : (4000 \times 8) : (8000 \times 8)$  = 48 : 32 : 64 = 3 : 2 : 4Kamal's share  $= Rs.4005 \times \frac{2}{9}$ = Rs.890

- 4. Required number of ways  $= ({}^{8}C_{5} \times {}^{10}C_{6}) = ({}^{8}C_{3} \times {}^{10}C_{4}) = [\frac{8 \times 7 \times 6}{3 \times 2 \times 1} \times \frac{10 \times 9 \times 8 \times 7}{4 \times 3 \times 2 \times 1}] = 11760$
- 5. P (getting a prize) =  $\frac{10}{(10+25)} = \frac{10}{35} = \frac{2}{7}$ 6. Let the son's present age be x years. Then, man's present age = (x + 24) years = (x + 24) + 2 = x (x + 2) = x + 26 = 2x + 4= 22 years
- 7. C.P. =  $Rs.[\frac{100}{12250} \times 392]$ =  $Rs.[\frac{1000}{1225} \times 392]$ = Rs.320Therefore, profit =  $Rs.(392 \square 320)$ = Rs.72
- 8.  $1+4+9+16+\ldots+n^2$ =  $1^2+2^2+3^2+4^2+\ldots+n^2=\frac{n n+1 2n+1}{6}$
- 9. Sum of decimal places in the numerator and denominator under the radical sign being the same, we remove the decimal.

$$= \overline{81 \times 484 / 64 \times 625}$$
$$= 9 \times \frac{22}{8} \times 25$$

By Ramandeep Singh

Given exp.



= 0.99	
10. Average speed = $[2 \times 3 \times \frac{2}{3} + 2)$ km./hr. = $\frac{12}{5}$ km./hr.	
Distance travelled $= [\frac{12}{5} \times 5]$ km. = 12 km.	
Distance between house and school = $\left[\frac{12}{2}\right]$ km = 6 km.	
11. (A + B)'s 1 day's work $=\frac{1}{10}$ C's 1 day's work $=\frac{1}{50}$ (A + B + C)'s 1 day's work $=[\frac{1}{10}+\frac{1}{50}]=\frac{6}{50}=\frac{3}{25}$ (i) A's 1 day's work $=(B + C)$ 's 1 day's work(ii) From (i) and (ii), we get 2 × (A's 1 day's work) $=\frac{3}{25}$ A's day's work $=\frac{3}{50}$ B's 1 day's work $=[\frac{1}{10}[2\frac{3}{50}]=\frac{2}{50}=\frac{1}{25}$ So, B alone could do the work in 25 days.	i)
12. Sin B = $\frac{b}{2R}$ = $\frac{AC}{2}$ = $\frac{R}{2R}$ [Given AB = AC = R] = $\frac{1}{2}$	
$B = \frac{\pi}{6} \text{ or } \frac{5\pi}{6}$ But, when $B = \frac{5\pi}{6}$ , $C = \frac{5\pi}{6} [AB = AC \Rightarrow B = C]$ $\Rightarrow B + C >$ So, $B = \frac{5\pi}{6}$ not possible $B = \frac{\pi}{6}$ $C = \frac{\pi}{6} [AB = AC \Rightarrow B = C]$ $A = \Box [\frac{\pi}{6} + \frac{\pi}{6}]$ $A = \frac{2\pi}{3}$	
12. For any triangle sum of any two sides must be greater than the third	1

13. For any triangle sum of any two sides must be greater than the third side.

The sides are 10, 12 and 'x'.

From Rule 2, x can take the following values : 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 – A total of 19 values.

When x = 3 or x = 4 or x = 5 or x = 6, the triangle is an OBTUSE angled triangle.

The smallest value of x that satisfies both conditions is 7.  $(10^2 + 7^2 > 12^2)$ 

The highest value of x that satisfies both conditions is 15.  $(10^2 + 12^2 + 15^2)$ 

When x = 16 or x = 17 or x = 18 or x = 19 or x = 20 or x = 21, the triangle is an OBTUSE angled triangle.

:.



Hence, the values of x that satisfy both the rules are x = 7, 8, 9, 10, 11, 12, 13, 14, 15. A total of 9 values.

- 14. Rate in still water  $= \frac{1}{2} (10 + 7) \text{ km./hr.}$ = 8.5 km./hr. $= \frac{1}{2} (10 7) \text{ km./hr.}$ = 1.5 km./hr.
- 15. Sum of 3 numbers =  $60 \times 3 = 180$ 1<sup>st</sup> is 1/4<sup>th</sup> sum of other two numbers, So, 1<sup>st</sup> is  $\frac{1}{4+1} = 1/5^{th}$  sum of 3 numbers =  $\frac{180}{5} = 36$
- 16. Assume  $=\frac{boys}{girls} = \frac{2}{3} = B$ , then  $\frac{girl}{boys} = \frac{3}{2} = G$ B + G  $= \frac{2}{3} + \frac{3}{2} = \frac{13}{6} > 1$
- 17. Monthly income of C = Rs.200 Income of B =  $1.2 \times 200 = \text{Rs.240}$ Income of A =  $0.9 \times 240 = \text{Rs.216}$ A + B + C = 656 Annual income =  $12 \times 656 = 7872$
- 18. Original number of sections = 16 3 = 13Original number of students =  $24 \times 13 = 312$ Present number of students =  $21 \times 16 = 336$ Number of new students admitted = 336 - 312 = 24

19. Average = 
$$\frac{76+65+82+67+85}{5} = \frac{375}{5} = 75$$

- 20. The year 2004 is a leap year. So, it has 2 odd days.
  So, the day on 6<sup>th</sup> March 2005 will be 2 days beyond the day on 6<sup>th</sup> March 2004.
  But 6<sup>th</sup> March 2005 is Monday
  So, 6<sup>th</sup> March 2004 is Saturday.
- 21. Angle traced by hour hand in  $\frac{21}{4}$  hours =  $\left[\frac{360}{12} \times \frac{21}{4}\right]^\circ = 157 \frac{1}{2}^\circ$ Angle traced by minute hand in 15 min. =  $\left[\frac{360}{12} \times 15\right]^\circ = 90^\circ$ So, required angle =  $\left[157 \frac{1}{2}\right]^\circ \boxed{2} 90^\circ = 67 \frac{1}{2}^\circ$
- 22. Part filled by A in 1 min. Part filled by B in 1 min. Part filled by (A + B) in 1 min.  $= \frac{1}{20}$   $= \frac{1}{30}$   $= [\frac{1}{20} + \frac{1}{30}]$   $= \frac{1}{12}$



Both the pipes can fill the tank in 12 minutes.

23. Let the rate be R% p.a.

Then, 
$$\left[\frac{5000 \times R \times 2}{100}\right] + \left[\frac{3000 \times R \times 4}{100}\right] = 2200$$
  
 $100R + 120R = 2200$   
 $R = \left[\frac{2200}{220}\right] = 10$   
So, rate = 10%

- 24. Let the total sale be Rs. x Then, 2.5% of x = 12.50  $\left[\frac{25}{100} \times \frac{1}{100} \times x\right] = \frac{125}{10}$  $x = \left[\frac{125}{10} \times \frac{100 \times 10}{25}\right] = 500$
- 25. Length of the carpet =  $\left[\frac{total cost}{Rate/m}\right] = \left[\frac{8100}{45}\right]$  m = 180 m. Area of the room = Area of the carpet =  $\left[180 \times \frac{75}{100}\right]$  m<sup>2</sup> = 135 m<sup>2</sup> So, breadth of the room =  $\left[\frac{Area}{length}\right] = \left[\frac{135}{18}\right]$  m = 7.5 m
- 26. When n is odd,  $(x^n + a^n)$  is always divisible by (x + a)So, each one of  $47^{43} + 43^{43}$  and  $47^{47} + 43^{43}$  is divisible by 47 + 43
- 27. Clearly, we have (3+11+7+9+15+13+8+19+17+21+14+x/12) Number in place x is 137 + x = 144 x = 144 ☑ 137 x = 7
- 28. HCF of 18 and 25 is 1. So, they are co-primes.
- 29. Ratio of speed of camel and elephant =  $\frac{5}{3}$  :  $\frac{7}{5} = \frac{5}{3} \times 15$  :  $\frac{7}{5} \times 15$ = 25 : 21
- 30. For managing, A received = 5% of Rs. 7400 = Rs. 370. Balance = Rs. (7400 - 370) = Rs. 7030. Ratio of their investments = (6500 x 6) : (8400 x 5) : (10000 x 3) = 39000 : 42000 : 30000 = 13 : 14 : 10 B's share = Rs.  $[7030 \times \frac{14}{37}]$  = Rs.2660
- 31. Let the number be x Then, 3(2x + 9) = 75
  - 2x + 9 = 252x = 16x = 8
- 32. Let the present ages of A and B be 5x and 3x years respectively.



 $\frac{5x-4}{3x+4} = \frac{1}{1}$  5x - 4 = 3x + 4 2x = 8 x = 4Required ratio 5x + 4 : 3x - 4 = 24 : 8 = 3 : 1

- 33. Let the worth of the house be Rs.x Then, 2/7% of x = 2800  $\frac{2}{7} \times \frac{1}{100} \times x = 2800$  $x = \frac{2800 \times 100 \times 7}{2} = 980000$
- 34. Let S.P. = Rs.x New S.P. = Rs. $\frac{x}{2}$ Loss = 30% C.P. =  $\frac{100}{70} \times \frac{x}{2}$  = Rs. $\frac{5x}{7}$ Profit = Rs. X -  $\frac{5x}{7}$  = Rs. $\frac{2x}{7}$ Profit % =  $\frac{2x}{7} \times \frac{7}{5x} \times 100\%$  = 40%
- 35. Let the number of 25p, 10p and 5p coins be x, 2x and 3x respectively. Then, sum of their values = Rs.  $\frac{25x}{100} + \frac{10 \times 2x}{100} + \frac{5 \times 3x}{100} = \text{Rs}.\frac{60x}{100}$   $\frac{60x}{100} = 30$   $x = \frac{30 \times 100}{60} = 50$ Hence, the number of 5p coins =  $3 \times 50 = 150$
- 36. A : B = 3 : 2 B : A = 2 : 3 = 4 : 6 and A : C = 2 : 1 = 6 : 3 B : A : C = 4 : 6 : 3 or A : B : C = 6 : 4 : 3 B's share = Rs.157300  $\times \frac{4}{13}$  = Rs.48400
- 37. Let the required number of labourers be x. Working hours/day = 6 : 7 Days = 30 : 18  $6 \times 30 \times x = 7 \times 18 \times 30$  6x = 126x = 21
- 38. Work done by X in 8 days =  $\frac{1}{40} \times 8 = \frac{1}{5}$ Remaining work  $= 1 - \frac{1}{5} = \frac{4}{5}$ Now,  $\frac{4}{5}$  work is done by Y in 16 days Whole work will be done by Y in  $16 \times \frac{5}{4} = 20$  days X's 1 day's work  $= \frac{1}{40}$

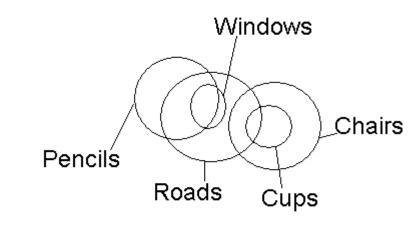


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	X + Y's 1 d Hence, X at				e the wo	ork in 40 3	= 13-1/	3 days		
39.	Capacity of Capacity of Number of	each buc	ket = 9 li	itres	litres					
40.	$     x \times \frac{15}{60} + 2x \\     \frac{x}{4} + \frac{2x}{3} + \frac{x}{6} = $	CT (75)	$<\frac{10}{60}=39$							
	Option A Option C How many Many are w From equat how→ ta o	velcome h ions (i) ar	ere →na	ı pi nika	(ii) →naka	(i)				
43.	Option A Given number According to $1$ $2^{nd}$ digit from $4$	to question 2	7	3 earrangei 8	5 nent, ne 3	9 ew numl 5	1 per = 9	4		2
44.	Option D A D So, the pair	J s are AI a	U nd GI	S	Т	Ι	N	G		
46.	Option B Option E Option B Given arran According $= 27 \ \boxed{2} 15 \div = 27 \ \boxed{2} 20 + 15 = 15 \ \boxed{2} 20 + 15 = 15 \ \boxed{2} 20 + 15 = 15 \ \boxed{2} 20 + 15 \ \boxed{2} 2$	to question $3 \times 4 + 6$	n, letters $5 = 27 \ \square 5$	converte			tical syn	nbols		
48.	Option D W A	V	Е		and		W	Ι	N	S
	5 %	3	*				5	9	@	©
	Similarly, S A	Ν	E							
	© %	@	*							
49.	Option E 3 <sup>rd</sup> highest i Middle digi		647							
50.	Option D									
	nandeep Sin	ab		D						

According to height T > (P, Q) > (S, R)So from question, it is not clear that which one is shorter S or R. So the given data is insuficient.

- 51. Option C 20  $\square 6 = 14^{th}$  from left = W
- 52. Option B Symbol Consonant % R 3
- 53. Option D After eliminating all vowels and symbols the arrangement will be BMR3JKDF69W4NP2Y5QZ7G 12<sup>th</sup> from right end = y
- 54. Option D Letters Number Number/Symbol F 6 9, W 4 \*, P 2 \$
- 55. Option D
- 56. Option C

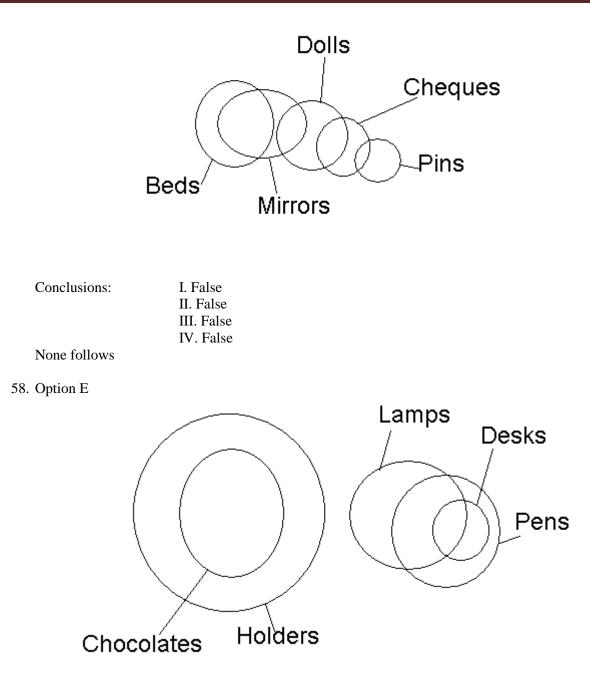


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57. Option A

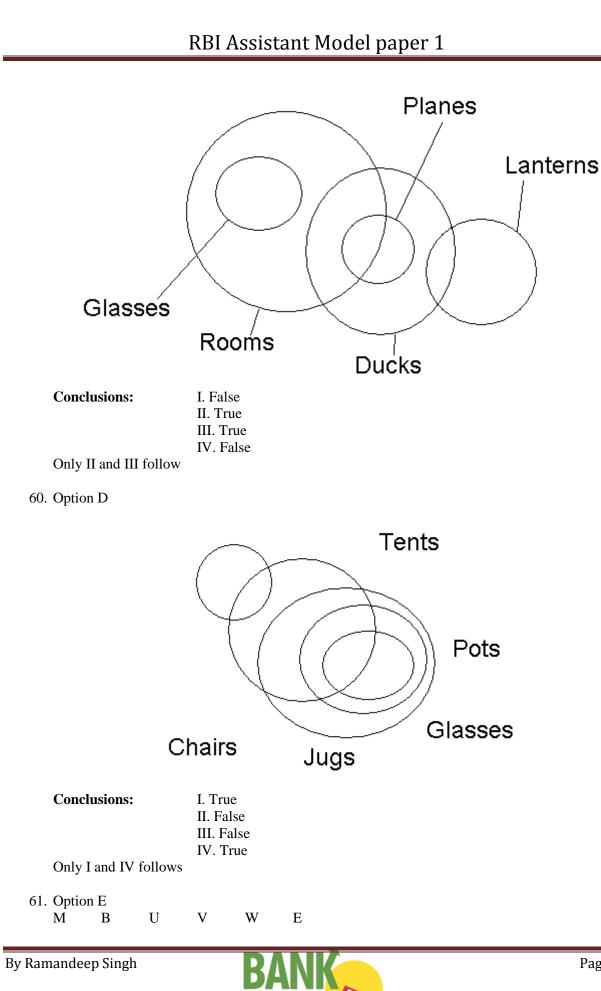






59. Option B





	#	*	©	7	5	2			
62	Option	С							
02.	A	J	В	М	F	U			
	4	9	*	#	8	©			
	-			n	0	0			
63.	Option								
	Accord	0	ondition						
	А	E	I	Μ	V	Н			
	4	!	@	#	7	!			
61	Ontion	D							
04.	Option		andition	(:::)					
			ondition		Ι	0			
	T	H	A	F		Q			
	1	\$	4	8	@	3			
65.	Option	А							
	Accord	ling to c	ondition	(i)					
	W	Μ	E	Ι	J	U			
	@	#	2	@	9	©			
66.	Option	D	aloss fr	11 15 27	watar	ouv 95 67			
	Input:		-			10w 85 67			
	Step I:		-			now 85 67			
	Step II:		water 85 glass full 15 37 now 67						
	Step II								
	Step IV				-				
	Step V				-	37 full 15			
	Step v	is the la	ist step a	na step	VI 18 not	t possible.			
67.	Option	D							
	Step II:				mail sort				
	Step II				16 mail				
	Step IV	<i>!</i> :			12 16 n				
	Step V	:	ultra 73	3 sot 39	mail 12	16 kite			
	Step V	I:	ultra 73	3 sort 39	mail 16	5 12 kite			
	Step V	II:	ultra 73	3 sort 39	mail 16	6 kite 12			
	So last	step is V	VII and 1	ast but c	one step	is step VI.			
68.	Option	D							
	Option								
	Step II:		tube 83	3 49 34 g	garden fl	ower rat 56			
	Step II					n flower 56			
	Step IV					rden flower			
	Step V				•	49 34 flower			
	-				-	nplete the rearrangement.			
				-1		1			
70.	Option	В							
	Innut		hunt fo	r 0/ 37	a a a d 20	18 hook			

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Input:	hunt for 94 37 good 29 48 book
Step I:	hunt 94 for 37 good 29 48 book
Step II:	hunt 94 good for 37 29 48 book



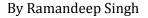
Step I Step I Step V Hence	V: V:	hunt hunt	94 good 94 good	48 for 37 48 for 37 48 for 37 red to con	29 book book 29	2
<ol> <li>71. Optio</li> <li>72. Optio</li> <li>73. Optio</li> <li>74. Optio</li> <li>75. Optio</li> <li>76. Optio</li> <li>P</li> <li>5</li> </ol>	n C n B n E n A	R 9	К 4			
<b>S</b> 1	H 7	I 6	R 9	T 8		
P 5	A 3	N 2	D 0	I 6	T 8	
N 2	I 6	<b>S</b> 1	H 7	A 3	R 9	
77. Option G 1	n B E 2	R 6	M 5	A 3	N 4	
F 9	O 7	O 7	D 0			
C 8	O 7	R 6	N 4			
F 9	R 6	A 3	N 4	C 8	E 2	
<ul> <li>A. 1</li> <li>B. 1</li> <li>C. 5</li> <li>D. 1</li> <li>E. 3</li> </ul>	5 6 5 z	9 z 7 6 9		you better you better come	better come come you and	go here here here go
78. Option From 1 = be	stateme	ents A ar	nd B,			

79. Option C From statements A and E, 9 = go From statements B and E 7 = come



and = 3

80. Option A From equations (i) and (v), Go = 981. Option D 82. Option D 83. Option C 84. Option E 85. Option C 86. Option B 87. Option A 88. Option A 89. Option E 90. Option E 91. Option C 92. Option A 93. Option D 94. Option B 95. Option D 96. Option A 97. Option B 98. Option A 99. Option E 100. Option A 101. Option D 102. Option A 103. Option C 104. Option B 105. Option E 106. Option D 107. Option C 108. Option E 109. Option D 110. Option A 111. Option D 112. Option B 113. Option E 114. Option A 115. Option A 116. Option C 117. Option D 118. Option B 119. Option C 120. Option E 121. Option B 122. Option E 123. Option A 124. Option D 125. Option D





126.	Option D
127.	Option B
128.	Option D
129.	Option A
130.	Option C
130.	Option E
131.	Option C
132.	Option C
	•
134.	Option E
135.	Option E
136.	Option D
137.	Option B
138.	Option B
139.	Option B
140.	Option C
141.	Option A
142.	Option E
143.	Option C
144.	Option A
145.	Option A
146.	Option E
147.	Option E
148.	Option C
149.	Option A
150.	Option C
151.	Option B
152.	Option C
152.	Option A
155.	Option B
154.	Option D
155.	Option B
150.	Option D
157.	Option D Option C
158. 159.	
	Option C
160.	Option B
161.	Option A
162.	Option D
163.	Option A
164.	Option B
165.	Option C
166.	Option C
167.	Option D
168.	Option C
169.	Option C
170.	Option D
171.	Option D
172.	Option B
173.	Option A
174.	Option C
175.	Option A
176.	Option B



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177.	Option A
178.	Option A
179.	Option D
180.	Option A
181.	Option D
182.	Option C
183.	Option D
184.	Option C
185.	Option A
186.	Option D
187.	Option D
188.	Option D
189.	Option D
190.	Option A
191.	Option D
192.	Option A
193.	Option B
194.	Option D
195.	Option A
196.	Option D
197.	Option B
198.	Option D
199.	Option A
200.	Option B

