

Grand Test-
IRPM-171004

IBPS RRB PO (Mains)

ANSWER KEY

1.(3)	21.(2)	41.(2)	61.(2)	81.(3)	101.(4)	121.(3)	141.(4)	161.(3)	181.(2)
2.(2)	22.(1)	42.(1)	62.(3)	82.(5)	102.(2)	122.(5)	142.(1)	162.(3)	182.(2)
3.(1)	23.(2)	43.(4)	63.(2)	83.(1)	103.(4)	123.(1)	143.(5)	163.(1)	183.(5)
4.(3)	24.(1)	44.(1)	64.(1)	84.(3)	104.(4)	124.(3)	144.(1)	164.(2)	184.(2)
5.(2)	26-30.	45.(4)	65.(4)	85.(1)	105.(1)	125.(5)	145.(1)	165.(3)	185.(1)
6.(2)	26.(4)	46.(3)	66.(3)	86.(2)	106.(4)	126.(4)	146.(2)	166.(5)	186.(4)
7.(1)	27.(3)	47.(5)	67.(4)	87.(3)	107.(3)	127.(4)	147.(4)	167.(3)	187.(3)
8.(3)	28.(2)	48.(1)	68.(3)	88.(4)	108.(3)	128.(4)	148.(4)	168.(1)	188.(1)
9.(5)	29.(1)	49.(2)	69.(1)	89.(2)	109.(1)	129.(1)	149.(1)	169.(1)	189.(4)
10.(1)	30.(5)	50.(4)	70.(2)	90.(4)	110.(1)	130.(5)	150.(4)	170.(2)	190.(4)
11.(3)	31.(3)	51.(1)	71.(5)	91.(4)	111.(3)	131.(3)	151.(4)	171.(3)	191.(5)
12.(1)	32.(2)	52.(1)	72.(5)	92.(1)	112.(3)	132.(2)	152.(5)	172.(4)	192.(2)
13.(4)	33.(4)	53.(2)	73.(2)	93.(4)	113.(4)	133.(4)	153.(3)	173.(2)	193.(3)
14.(2)	34.(1)	54.(4)	74.(4)	94.(1)	114.(5)	134.(2)	154.(2)	174.(1)	194.(1)
15.(3)	35.(3)	55.(2)	75.(5)	95.(1)	115.(3)	135.(3)	155.(5)	175.(4)	195.(3)
16.(2)	36.(4)	56.(5)	76.(3)	96.(5)	116.(3)	136.(5)	156.(3)	176.(1)	196.(2)
17.(4)	37.(1)	57.(4)	77.(1)	97.(4)	117.(1)	137.(2)	157.(2)	177.(1)	197.(2)
18.(2)	38.(3)	58.(3)	78.(4)	98.(1)	118.(1)	138.(3)	158.(1)	178.(2)	198.(2)
19.(5)	39.(5)	59.(3)	79.(5)	99.(4)	119.(4)	139.(2)	159.(4)	179.(3)	199.(4)
20.(4)	40.(5)	60.(5)	80.(2)	100.(4)	120.(1)	140.(3)	160.(2)	180.(4)	200.(1)

HINTS & SOLUTIONS

- 1.(3) Let the speed of A and B be u km/hr and v km/hr respectively
When they travel in opposite directions
 $u + v = 25$... (i)
When they travel in the same direction
 $5u - 5v = 25$
 $u - v = 5$... (ii)
Solving equation (i) and (ii), we get
 $\therefore u = 15$ km/hr
- 2.(2) Let C's investment be Rs. x
Then B's investment = Rs. $(x - 30000)$
A's investment = $x - 30000 + 60000$
= Rs. $(x + 30000)$
Now, $(A + B + C)$'s investment = 720000
Or, $x + x - 30000 + x + 30000$
= 720000
 $\therefore 3x = 720000$
 $\therefore x = 240000$
Thus, A's investment = 270000
Hence, B's investment = 210000
C's investment = 240000
 \therefore Ratio of capital = 9 : 7 : 8
B's share = $\frac{7}{24} \times 86400 = 7 \times 3600 =$ Rs. 25200
- 3.(1) Required % increase = $12 + 17 + \frac{12 \times 17}{100} = 29 + 2.04 = 31.04\%$
- 4.(3) Let the larger part be Rs. x .
Then smaller part = Rs. $(36000 - x)$
According to the question
 $\frac{x \times 3 \times 12}{100} = \frac{(36000 - x) \times 9 \times 16}{100 \times 2}$
or, $36x = (36000 - x) \times 72$
or, $36x = 36000 \times 72 - 72x$
or, $108x = 36000 \times 72$
 $\therefore x = \frac{36000 \times 72}{108} =$ Rs. 24000
- 5.(2) Total no. of balls = $5 + 3 + 4 = 12$
Sample space = $n(S) = {}^{12}C_2 = \frac{12 \times 11}{2} = 66$
 $n(E) = {}^5C_2 + {}^3C_2 + {}^4C_2 = \frac{5 \times 4}{2} + \frac{3 \times 2}{2} + \frac{4 \times 3}{2}$
= $10 + 3 + 6 = 19$
 \therefore Req'd. probability $P(E) = \frac{n(E)}{n(S)} = \frac{19}{66}$

6.(2) Females in B. Com discipline from college A

$$= \frac{110}{100 \times 3} \times 300 = 110$$

Let males in B.Sc discipline from college C = x
 So

$$x + \left(x + \frac{2}{3}x\right) = 400$$

$$\frac{8}{3}x = 400$$

$$x = 150$$

$$\text{Required percentage} = \frac{300 - 110}{150} \times 100$$

$$= \frac{19}{15} \times 100$$

$$= \frac{380}{3} \%$$

$$= 126\frac{2}{3} \%$$

7.(1) Total females in B. com from all colleges together

$$= \frac{47.5}{100} \times 2000 = 950$$

$$\text{Required ratio} = (2050 - 950) : 950$$

$$= 1100 : 950 = 22 : 19$$

8.(3) Required difference = 2150 - 2050 = 100

9.(5) Students who leave college A

$$= \frac{1}{3} \times 1050 = 350.$$

Students from B.A., B.Sc and B. Com who leave college A are

$$\frac{350}{70} \times 23, \frac{350}{70} \times 21 \text{ and } \frac{350}{70} \times 26 \text{ respectively.}$$

Remaining students in B. Com from college A

$$= 300 - \frac{350}{70} \times 26 = 300 - 130 = 170.$$

$$\text{Required percentage} = \frac{170}{400} \times 100 = \frac{170}{4} \% = 42.5\%.$$

10.(1) Required percentage

$$= \frac{1050 + 1300}{1250 + 1450} \times 100 = \frac{2350}{2700} \times 100$$

$$= \frac{2350}{27} \%$$

11.(3) $35x^2 - 25x - 28x + 20 = 0$

$$5x(7x - 5) - 4(7x - 5) = 0$$

$$x = \frac{4}{5}, \frac{5}{7}$$

$$56y^2 - 49y - 48y + 48 = 0$$

$$7y(8y - 7) - 6(8y - 7) = 0$$

$$y = \frac{6}{7}, \frac{7}{8}$$

$$x < y$$

12.(1) x = 17.

Putting in eq. (ii), 13y = 195.
 Therefore, y = 15.

x > y

13.(4) $12x^2 - 6x - 10x + 5 = 0$

$$6x(2x - 1) - 5(2x - 1) = 0$$

$$x = \frac{1}{2}, \frac{5}{6}$$

$$18y^2 - 30y - 15y + 25 = 0$$

$$6y(3y - 5) - 5(3y - 5) = 0$$

$$y = \frac{5}{3}, \frac{5}{6}$$

$$x \leq y$$

14.(2) $x^2 - 7x - 9x + 63 = 0$
 $x(x - 7) - 9(x - 7) = 0$
 $x = 7, 9$

$$y^2 - 7y + 5y - 35 = 0$$

$$y(y - 7) + 5(y - 7) = 0$$

$$y = 7, -5$$

$$x \geq y$$

15.(3) I. x = ±32

II. y = 1086

$$y > x.$$

16.(2) Series is ×1.5, ×3, ×6, ×12, ×24

$$\text{So, ?} = 3240 \times 12 = 77760.$$

17.(4) Series is ×2 + 2, ×3 + 3, ×4 + 4, ×5 + 5, ×6 + 6

$$\text{So, ?} = 1645 \times 6 + 6 = 9876.$$

18.(2) Series is, ÷2, ÷4, ÷8, ÷16, ÷32

$$\text{So, ?} = 512 \div 4 = 128.$$

19.(5) Series is -19, -38, -57, -76, -95

$$\text{So, ?} = 317 - 57 = 260.$$

20.(4) Series is ×1.5, ×2, ×2.5, ×3, ×3.5, ×4

$$\text{So, ?} = 675 \times 3.5 = 2362.5.$$

21.(2) Let number of inlet pipes = x

$$\therefore \text{number of outlet pipes} = 15 - x$$

Now according to question

$$\frac{15-x}{6} - \frac{x}{8} = \frac{1}{6}$$

$$\Rightarrow x = 8$$

22.(1) 10 years ago, total age of 25 teachers = 25 × 45 = 1125

4 years ago, total age of teacher excluding principal

$$= 1125 + 6 \times 25 - 60$$

$$= 1275 - 60$$

$$= 1215$$

3 years ago, total age of teacher including new principal

$$= 1215 + 24 + 54$$

$$= 1293$$

Now, present age of all teachers = 1293 + 25 × 3

$$= 1368$$

$$\therefore \text{Required average} = \frac{1368}{25}$$

$$= 54\frac{18}{25} \text{ years}$$

23.(2)

$$\begin{array}{ccc} \text{Zinc} & & \text{Zinc} \\ \frac{1}{3} & \searrow \quad \swarrow & \frac{2}{5} \\ & 5 & \\ \frac{2}{5} - \frac{5}{13} & \nearrow \quad \nwarrow & \frac{5}{13} - \frac{1}{3} \\ & 13 & \\ = \frac{1}{65} & & = \frac{2}{39} \end{array}$$

$$\text{Required ratio} = \frac{1}{65} = \frac{3}{195}$$

$$= \frac{2}{39}$$

24.(1) v = 4.5 km/hr

$$s = 1.5 \text{ km/hr}$$

$$\text{Average speed} = \frac{(v+s)(v-s)}{v}$$

$$= \frac{(4.5+1.5)(4.5-1.5)}{4.5}$$

$$= \frac{6 \times 3}{4.5}$$

$$= 4 \text{ km/hr}$$

25.(2) Let the amount invested at 6% be x

The amount invested at 5% be 10000 - x

$$\frac{(10000-x) \times 5}{100} - x \times \frac{6}{100} = 76.50$$

$$50000 - 5x - 6x = 7650$$

$$11x = 42350$$

$$x = 3850$$

26-30.

State	Male	Female
A	90,000	1,08,000
B	1,62,500	1,35,000
C	90,000	1,18,800
D	1,30,000	1,20,000
E	91,000	1,04,000
F	1,58,400	1,30,000

26.(4) Required percentage

$$= \frac{1,35,000 - 90,000}{1,35,000} \times 100$$

$$= \frac{45,000}{1,35,000} \times 100 = 33\frac{1}{3}\%$$

27.(3) Required ratio = $\frac{90,000}{1,30,000} = 9 : 13$

28.(2) Total population of state
 $= 1,30,000 + 1,20,000 = 2,50,000$

29.(1) Average of female population of state A, B and D together

$$= \frac{108000 + 135000 + 120000}{3}$$
 $= 121000$

30.(5) Total population of F = $1,58,400 + 1,30,000 = 2,88,400$

31.(3) Average production of firm T = $\frac{360+240}{2} = 300$

Average production of firm P = $\frac{380}{2} = 190$

Required difference = 110

32.(2) Required sum = $260 + 360 + 200 + 380 = 1200$

Required average = $\frac{1200}{4} = 300$

33.(4) Production of S in 2007 = $\frac{4}{3} \times 360 = 480$

Production of T in 2007 = $240 + 240 \times \frac{35}{100}$

$= 240 + 84$

$= 324$

Required sum = 804

34.(1) Production of Q in 2005 = 230

Production of S in 2006 = 360

Production of T in 2006 = 240

Production of U in 2005 = 200

Required ratio = $\frac{230+360}{240+200} = \frac{590}{440} \Rightarrow 59 : 44$

35.(3) Required % = $\frac{(340+370)-(360+290)}{(340+370)} \times 100$

$= \frac{710-650}{710} \times 100$

$= 8.45\%$

36.(4) Let x litres of water be added.

Then, $\frac{x+6}{30+x} = \frac{3}{5}$

or, $5(x+6) = 3(30+x)$

or, $5x+30 = 90+3x$

or, $5x-3x = 90-30$

or, $2x = 60$

$\therefore x = \frac{60}{2} = 30$ litres

37.(1) Part filled by A, B and C together in 3 hours = $\frac{3}{11}$

Remaining $\frac{8}{11}$ part is filled by A and C together in 16 hours

Now, work done by A, B and C in 8 hours is equal to the work done by A and C.

Let their efficiency are A, B, C

$8(A+B+C) = 16(A+C)$

$B = A+C$

Efficiency of B = Efficiency of A and C

Then B alone can do work in 22 hours

38.(3) Let the speed of the car be x km/hr

Then the speed of the train = $x \times \frac{150}{100} = \frac{3x}{2}$

Now, $\frac{330}{x} - \frac{330}{\frac{3x}{2}} = \frac{88}{60}$

or, $\frac{330}{x} - \frac{220}{x} = \frac{88}{60}$

or, $\frac{330-220}{x} = \frac{88}{60}$

or, $\frac{110}{x} = \frac{88}{60}$

$\therefore x = \frac{60 \times 110}{88} = 75$

Therefore the speed of the car = 75 km/hr

\therefore Speed of the train = $\frac{3x}{2} = 75 \times \frac{3}{2} = 112.5$ km/hr

39.(5) Wine Water

First mixture $3x \quad 2x$

Second mixture $4y \quad 5y$

In 3 litres of first mixture:

Wine = 1.8 l

Water = 1.2 l

When 9y of second mixture is added

$1.8 \text{ l} + 4y = 1.2 \text{ l} + 5y$

or, $y = 0.6 \text{ l}$

\therefore Resultant mixture = $9y = 9 \times 0.6 = 5.4$ litres

Volume of Hemispherical bowl = $\frac{2}{3}\pi r^3$

\therefore Diameter = 54 cm

\therefore Radius = $\frac{54}{2} = 27$ cm

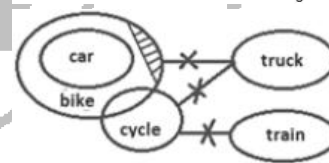
Now, volume of hemispherical bowl = $\frac{2}{3} \times \frac{22}{7} \times 27 \times 27 \times 27$

Volume of the cylindrical bottle = $\pi r^2 h$

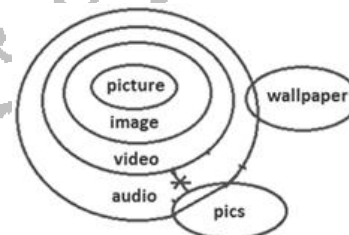
$= \frac{22}{7} \times 3 \times 3 \times 9$

\therefore Number of bottles required = $\frac{2}{3} \times \frac{22}{7} \times \frac{27 \times 27 \times 27 \times 7}{22 \times 3 \times 3 \times 9} = 162$

41.(2)



42.(1)



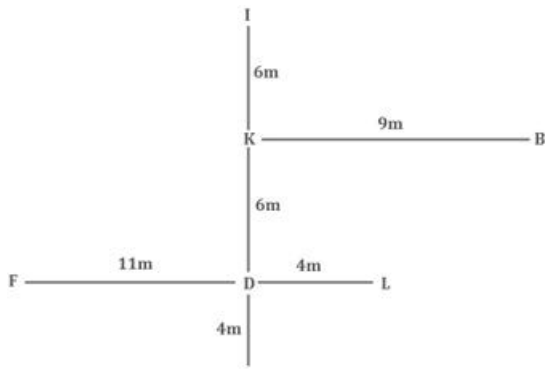
43.(4) In this question we have to choose an option which could be the reason for these train accidents.

Option (i) is not a correct choice as this happened after the train accidents so this could not have resulted in the accidents.

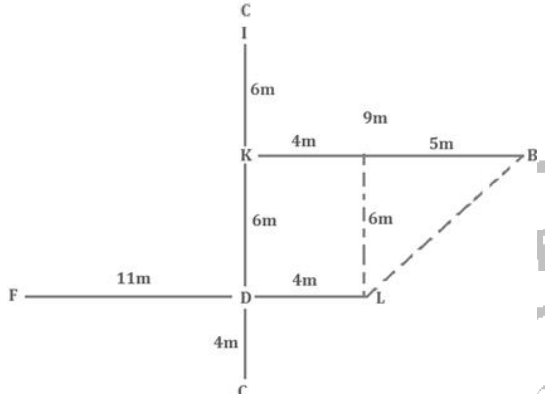
Option (ii) could be the reason as it is mentioned in the statement that new hiring is not happening.

Option (iii) could also be the reason as it is given in the statement that maintenance and replacement (which is linked to infrastructure) of track is not happening.

44.(1)



45.(4)



Step 3: Now it is given that M wears pink colour shirt and likes Moscow Mule. There are two persons who have their birthday between the one who wears pink colour shirt and the one who wears orange colour shirt. Q likes Green tea. M does not born in the Month of June so from these condition it is clear that M has birthday in the month of January and Q has his birthday in June and wears Orange colour shirt and O wears Black colour shirt and R likes Moorish. Hence we get our final arrangement.

MONTH	PERSONS	COLOUR	BEVERAGES
January	M	PINK	MOSCO MULE
MARCH	P	YELLOW	COFFEE
APRIL	N	BLUE	MEDUSA
JUNE	Q	ORANGE	GREEN TEA
JULY	O	BLACK	LITCHI SORBET
SEPTEMBER	R	RED	MOORISH

46.(3)
48.(1)
51.(1)

47.(5)
49.(2)

50.(4)

With people drilling deeper and deeper wells to extract groundwater, we may soon run out of ground water and millions of people in the entire region will be left with no means to sustain themselves. There could be some connection between drawing water from the hard rick-aquifers and the whole region. Option (a) establishes this link-aquifers and rivers are interconnected, so the entire region will be affected. Option (b) does not point to interconnection of aquifers and rivers in the entire region. Option (c) is also not related to running out of water in the entire region. 'Access' to groundwater becoming a lottery in option (d) has no relevance to the conclusion above.

46-50. Step 1: From the given conditions: - N likes Medusa and has his birthday in the month which has 30 days. There are two persons who have their birthday between the one who likes medusa and R, who wears a Red colour shirt. R was not born in the month which has 31 days, so from these given condition there will be two possible case in which N has his birthday is either in September or in April.

52.(1)

We put 'x' in place of question mark (?). Then we have Option (1).

Case 1

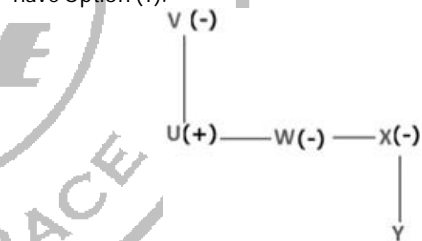
MONTH	PERSONS	COLOUR	BEVERAGES
January			
MARCH			
APRIL	N		MEDUSA
JUNE			
JULY			
SEPTEMBER	R	RED	

Case 2

MONTH	PERSONS	COLOUR	BEVERAGES
January			
MARCH			
APRIL	R	RED	
JUNE			
JULY			
SEPTEMBER	N		MEDUSA

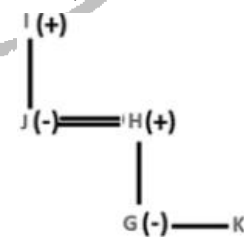
Step 2: From the given conditions: - The one whose birthday is in April wears a blue colour shirt so in case 2 R wears a Red colour shirt which can't be possible so Case 2 will be eliminated. Now it is given that the one who has his birthday in March wears Yellow colour shirt and likes Coffee. P has his birthday in the month which has 31 days but not in January. There are two friends who have their birthday between P and O, who likes litchi Sorbet. Hence from these condition it is clear that P has his birthday in March and O has his birthday in the month of July.

MONTH	PERSONS	COLOUR	BEVERAGES
January			
MARCH	P	Yellow	Coffee
APRIL	N	Blue	MEDUSA
JUNE			
JULY	O		Litchi sorbet
SEPTEMBER	R	RED	

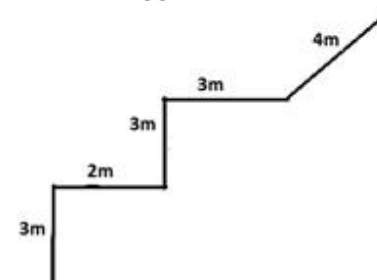


Hence, U is brother of X.

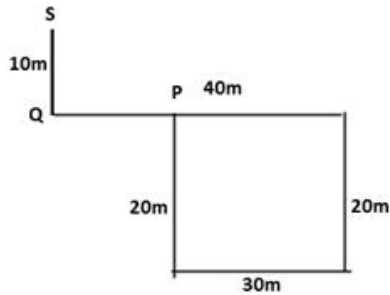
53.(2)



54.(4)

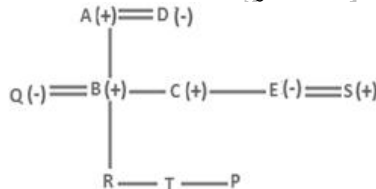


55.(2)



56-60.

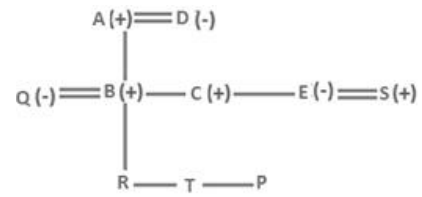
i. First we try to complete blood-relation tree from the given conditions, which as follows like- There is only one person between R's father and R's paternal uncle. E is the wife of S. A is the grandfather of T and R. D is the grandmother of P. Q is the wife of B and mother of both P and T. E is the sister of B and C. R's grandmother has three children and one daughter-in-law and one son-in-law so A and D are husband and wife respectively and they have three children E, C and B. They have three grandchildren P, R and T. The one whose favourite place is Australia is on the immediate right of R's grandmother. We deduce that figure-



ii. E sits opposite to the one who sits second to the left of the one whose favourite place is Brazil. E sits at one of the ends of the row and Japan is his/her favourite place so E sits at the right end. The one whose favourite place is Brazil sits opposite to the one who sits immediate right of R's father. There is only one person sits between R's father and R's paternal uncle. D sits diagonally opposite to T. P sits opposite to A, whose favourite place is Russia so P's favourite place is Brazil. C's favourite place is India. The persons whose favourite places are Italy and Japan sit opposite to each other.



iii. T sits third to the left of R's mother, whose favourite place is China. R faces the one whose favourite place is Germany so D's favourite place is Germany. E's husband that means S does not like Argentina so S's favourite place is Spain and R's favourite place is Argentina so the final arrangement is -



56.(5)
58.(3)
61.(2)

57.(4)
59.(3)

60.(5)

It is clear from the given statement that Statement II will be the cause and Statement I will be its effect because according to the Railway board's circular time of sleeping of passengers have been reduced so this will be the cause and its effect is that the quarrels among the passengers on middle and lower berths oversleep will put an end.

62.(3)

For I-This statement is not-in-line with the given statement because this statement states about the settlement of refugees of Bangladesh who had fled to India after the earlier spate of violence whereas the given statement states about Rohingya Muslims who have fled from Myanmar and a large number of them are in India. For II-This statement is in-line with the given statement as it states that apex court is hearing a plea against the government's decision over Rohingya refugees.

For III- This statement is also in-line with the given statement as it states that about UN Human Rights Commission's reaction on India's take over Rohingya refugees.

63.(2)

In the above question we have to find which statement supports the given statement.

For I- This statement supports the given statement as it states that there should be a proper law enactment to ensure the safety of the children in schools.

For II- This statement also supports the given statement as it states that the security and safety of the children is the main priority and it is needed to renew the efforts to make students safe.

For III- This statement does not support the given statement as it describes that inspections on a random basis has always been done by the government to ensure the security of the children whereas the given statement describes an incident of child murder in the school premises which leads to a demand of a stricter law to regulate schools' security by educationists and lawyers.

64.(1)

In the above question we have to find the possible outcome of the above statement.

For I-This could not be the repercussion of the above statement as this statement states about the facts related to the the Sardar Sarovar Dam on the Narmada river.

For II- This could be the possible outcome of the above statement as it is a well-known fact that water is the main consideration of the farmers. So this dam will definitely help the farmers.

For III- This could not be the possible outcome as we don't know if the project was completed within the expected costs or not.

65.(4)

In the above question we have to find the statement which could be the adverse results of a situation.

For I-This statement could be the fallout of the above statement as it states that the Darjeeling bandh of 100 days will lead to the problems of Financial insecurity, political instability and disruption of Internet services which will increase the sufferings of the people.

For II- This statement also could be the fallout of the above statement as it states that People of Darjeeling will start suffering of stress and anxiety in the north Bengal hills as the indefinite bandh in Darjeeling which is also mentioned in the given statement Stress and anxiety cases increase as Darjeeling bandh races towards 100 days.

For III- This statement also could be the fallout of the above statement as it states that this bandh further lead to a situation of hopelessness, loss and doom that will left many psychologically drained which is also mentioned in the given statement that “Stress and anxiety cases increase as Darjeeling bandh races towards 100 days.”

66-70. First of all, all the given condition is placed in a table, like, M who does not wear Pink T shirt, lives on 5th floor and below W who does not live on odd numbered floor. E likes Hockey, lives just below the floor on which W lives. One of the vacant floor is somewhere between the floor on which W and M lives. The one who wears Green T-shirt lives on 8th floor. According to these conditions, W lives on 8th floor since E lives just below W. So W can't be live on 6th floor. And vacant floor will be 6th floor.

Floors	Person	Sports	Colors
9			
8	W		Green
7	E	Hockey	
6		Vacant	
5	M		
4			
3			
2			
1			

The one who likes Tennis, lives on even number floor. There are two floor between the one who likes Tennis and G who wears White T shirt. There is one vacant floor just above the floor on which G lives.

For this condition, the one who likes Tennis, can't live at 2nd floor since, G can't live at 5th floor. So, the one who likes Tennis lives on 4th floor. Then 2nd floor is vacant floor. There are only three people living between W and O who likes Badminton, then the one who likes Badminton lives on 3rd floor.

The one who likes Kabaddi lives on even numbered floor but just below the one, who likes football. The one who likes Cricket lives just above the floor on which R who lives on even numbered floor, lives. The one who wears Black T-shirt lives just above the floor on which O lives. B wears Red T shirt.

Floors	Person	Sports	Colors
9	B	Football	Red
8	W	Kabaddi	Green
7	E	Hockey	
6		Vacant	
5	M	Cricket	
4	R	Tennis	Black
3	O	Badminton	
2		Vacant	
1	G		White

Now, there is only one person live between the one who wears Black and the one who wears Yellow T- shirt. And M does not wear Pink T shirt, So he will wear Blue T shirt and O will wear Pink T-shirt. And one sport left is Boxing which G likes. So final Table is

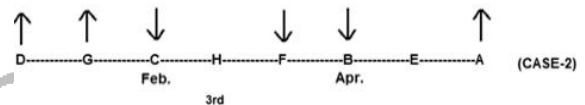
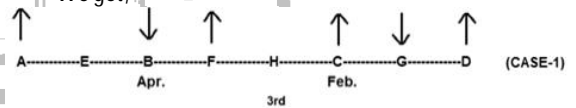
Floors	Person	Sports	Colors
9	B	Football	Red
8	W	Kabaddi	Green
7	E	Hockey	Yellow
6		Vacant	
5	M	Cricket	Blue
4	R	Tennis	Black
3	O	Badminton	Pink
2		Vacant	
1	G	Boxing	White

66.(3)
68.(3)
71-75.

67.(4)
69.(1)

70.(2)

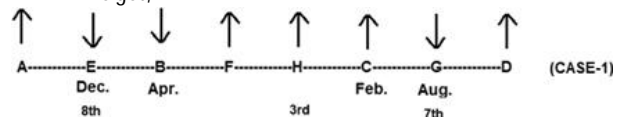
From the information given in the statement, A & D are sitting at the extreme ends. And none of the person who sit at the extreme ends face south. There are four persons between A & C. G is not an immediate neighbor of A. E sits fifth to the right of G. G sits third to the right of F. There are as many persons between E & H as there is to the right of C. H lives on third floor. C was born in February and B was born in April month. B faces south. We get,



Step 2. Proceeding with the remaining information, The one who lives on seventh floor sits fifth to the left of the one who lives on eighth floor. The persons who live on eighth floor and seventh floor face south so case-2 will be eliminated as this condition can't be possible.

Proceeding with case-1, H faces north. The one who lives on third floor sits second to the right of the one who was born in August. There is only one person sitting between the one who was born in the month of April and the one who lives on third floor. E faces the direction opposite to H. Those persons who were born in the month of December and August face the same direction.

We get,



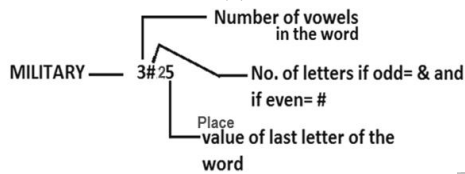
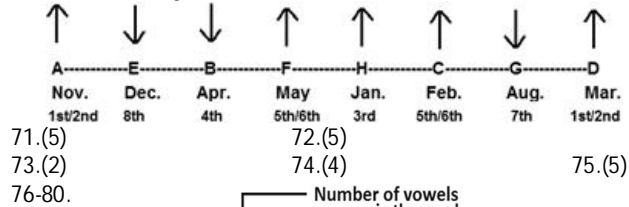
Step 3. It is also given that the one who was born in may sit to the left of H and the one who was born in November sits third to the left of the one who was born in May. It means F was born in May and A was born in November as there is no other possible arrangement for this condition.

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The one who was born in the month of March sits at one of the corners. It means D must be the one who was born in March and H will be the one who was born in January. The one who lives on fourth floor does not face North. It means B lives on fourth floor. A and D do not live on fifth floor or sixth floor.

So, we get our final solution as,



This coding decoding question is based on the latest pattern, following logic are applied in this question to decode the code.

(i) The first number of the code represents the Number of vowels in the word.

(ii) If the number of letters in the word is even then “#” symbol is used and if the number of letters in the word is odd then “&” symbol is used.

(iii) The number at the end of the code is the place value of the last letter in the given word according to alphabetical order.

76. (3) 77.(1)
- 78.(4) 79.(5)
- 81.(3) Tejas, India's indigenous Light Combat Aircraft, successfully demonstrated an Air-to-Air Beyond Visual Range (BVR) missile firing capability by releasing Derby Air-to-Air BVR missile in RADAR guided mode
- 82.(5) Entire Nagaland has been declared as “disturbed area” for six more months under the Armed Forces (Special Powers) Act (AFSPA), which empowers security forces to conduct operations anywhere without any prior notice in first week of July 2017. In a gazette notification, the home ministry stated it is of the opinion that the area comprising the whole of Nagaland is in such a “disturbed and dangerous condition” that the use of armed forces in aid of the civil power is necessary.
- 83.(1) Capital: Minsk
Currency: Belarusian ruble
- 84.(3) Centre has launched an app – GST Rates Finder to verify the accurate tax rate on commodity and services under the Goods and Services Tax (GST) regime. Finance Minister Arun Jaitley launched the app in New Delhi.
- 85.(1) ING Vysya Bank has merged with Kotak Mahindra Bank with effect from April 1, 2015, and the combined entity will bear the name Kotak Mahindra Bank.
- 86.(2) In pursuance of the proposed sale of a part of its shareholding in ICICI Lombard General Insurance Company (ICICI General) via an initial public offering, ICICI Bank said its joint venture agreement with Canada-based investment firm Fairfax Financial Holdings has been terminated.
- 87.(3) Ravi Shankar Prasad is an Indian lawyer, politician and the current Union Minister holding Law and Justice and Ministry of Information Technology (India) portfolio in the

- Government of India. A member of the Bharatiya Janata Party, Prasad represents the state of Bihar as a Member of Parliament in the Rajya Sabha.
- 88.(4) Finance Minister Arun Jaitley launched 'AaykarSetu', an e-initiative for the Income Tax Department to directly communicate with the taxpayers and aimed at providing information on useful tax services.
- 89.(2) HDFC Bank surpassed Tata Consultancy Services (TCS) to become the country's second most valued firm in terms of market valuation. Shares of HDFC Bank gained 0.93 per cent to Rs. 1,840 (its 52-week high) on the BSE. Reliance Industries Ltd is the country's most valued firm with a market cap of Rs. 5,33,818.72 crore followed by HDFC Bank and TCS in top three list.
- 90.(4) A closed economy is self-sufficient, meaning no imports are brought in and no exports are sent out, the goal being to provide consumers with everything they need from within the economy's borders. A closed economy is the opposite of an open economy, in which a country conducts trade with outside regions.
- 91.(4) All Scheduled Commercial Banks excluding Regional Rural Banks (RRBs) are eligible to implement the Scheme.
- 92.(1) Koyna Dam is built across river koyna in Koyna Naga Maharashtra with a height of 103m. It is one of the largest dams in Maharashtra located at Western Ghats. The lake founded by the Koyna dam is called The Shivaji Lake.
- 93.(4) The Government of India has decided to launch a new sub-scheme named “Aajeevika Grameen Express Yojana (AGEY)” as part of the Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM).
- 94.(1) President Ram Nath Kovind has launched a nationwide campaign ‘Swacchata Hi Sewa’ from Kanpur in Uttar Pradesh on September 15, 2017. He will administer nation-wide Swachhta Hi Seva pledge initiating parallel action in all the two lakh 50 thousand plus Gram Panchayats and cities in India.
- 95.(1) Deposit insurance facility of Deposit Insurance and Credit Guarantee Corporation is not available to depositors of NBFCs, unlike in the case of banks.
- 96.(5) BHIM app currently supports 12 languages (including English), though there are totally 22 of the official languages of India (excluding English) under 8th Schedule of Constitution of India, In near future BHIM app is expected to support all 22 official languages of India along with other regional languages which were spoken widely next to the scheduled languages.
- 97.(4) Haider al-Abadi is the Prime Minister of Iraq. Baghdad is the capital of Iraq.
- 98.(1) The upper limit per UPI transaction is Rs. 1 Lakh
- 99.(4) Traditional economy is an original economic system in which traditions, customs, and beliefs help shape the goods and the services the economy produces, as well as the rules and manner of their distribution. Countries that use this type of economic system are often rural and farm-based.
- 100.(4) PV Sindhu becomes the first Indian to win the Korea Open Super series with an outstanding win over Nozomi Okuhara in the much-talked-about women's singles final in Seoul.
- 101.(4) The Reserve Bank of India has allowed systematically important non-banking finance companies to sell and market the new pension scheme (NPS).

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- 102.(2) India clinched the 2nd South Asian Basketball, SABA, Under - 16 Championship title after registering a commanding win over Bhutan.
- 103.(4)
- 104.(4) Thomas Bach, the President of International Olympic Committee (IOC), has officially announced that Paris will host 2024 and Los Angeles will host 2028 Summer Olympics.
- 105.(1) The Phrumsengla National Park (PNP) is located in Bumthang, Lhuntee, Mongar and Zhemgang districts of Bhutan and covers an area of 905.05 square kilometers.
- 106.(4) The Gir Forest National Park and Wildlife Sanctuary is a forest and wildlife sanctuary near Talala Gir in Gujarat, India.
- 107.(3) The Indian Army has developed a mobile application through which serving soldiers can track details like postings and promotions. Through the 'Humraaz' app, soldiers can also view their monthly salary slips and the Form 16 and also download them.
- 108.(3) Fino Payments Bank has launched its mobile banking app called BPay. Fino aims to make banking easy for millions of underbanked people in India. The upgraded BPay app is available on Android at present.
- 109.(1) Montenegro officially joined North Atlantic Treaty Organization (NATO) and thereby became the 29 member country.
- 110.(1) HDFC Life announced the launch of an artificial intelligence-based application 'SPOK' that can automatically read, understand, categorise, prioritise and respond to customer emails sent to the private insurer.
- 111.(3) A non performing asset (NPA) is a loan or an advance where interest and/or installment of principal remain overdue for a period of more than 90 days in respect of a term loan.
- 112.(3) The Karnataka Government has decided to roll out a new Universal Health Scheme (UHC) from November 1 (Karnataka Rajyotsava Day) for providing medical treatment to all 1.40 crore households of the State. The new scheme called "Arogya Bhagya" would eliminate overlapping of existing multiple health schemes and duplication in funds release.
- 113.(4) Telangana Chief Minister K Chandrashekhara Rao has been selected for the prestigious Agriculture Leadership Award-2017. The award will be presented on September 5 at Taj Palace Hotel in New Delhi.
- 114.(5) Focus & Priorities of IBA is:-
 1. The Government of India on policy related issues
 2. Industry unions on wage negotiations and improving industrial relations
 3. Members to encourage inter-bank co-operation and co-ordination
 4. Foreign counterparts to widen the horizon and perspectives
 5. Other trade bodies for better co-ordination
 6. Its constituents and stakeholders for new initiatives
 7. The Reserve Bank of India on regulatory issues
- 115.(3) National Payments Corporation of India (NPCI) is the parent organisation of UPI (Unified Payment Interface).
- 116.(3) The Idukki Dam is a double curvature arch dam constructed across the Periyar River in a narrow gorge between two granite hills Kuravan and Kuravathi in Kerala, India. At 167.68 metres, it is one of the highest arch dams in Asia. It was constructed and is owned by the Kerala State Electricity Board
- 117.(1) The Sadbhavana Diwas or Harmony Day is celebrated to commemorate the birth anniversary (August 20) of Rajiv Gandhi.
- 118.(1) The World Health Organization (WHO) is a specialized agency of the United Nations that is concerned with international public health. It was established on 7 April 1948, headquartered in Geneva, Switzerland.
- 119.(4) Jaldapara Wildlife Sanctuary is situated at the foothills of Eastern Himalayas in Alipurduar Sub-Division of Jalpaiguri District in West Bengal.
- 120.(1) The Cabinet gave its approval for raising Extra Budgetary Resources of up to 9,020 crore during the financial year 2017-18. These funds will be for the implementation of Accelerated Irrigation Benefits Programme (AIBP) works of 99 ongoing prioritized irrigation projects along with their command area development (CAD) works under the Prime Minister Krishi Sinchayee Yojana (PMKSY).
- 121.(3) Refer to the fifth sentence of the first paragraph, "Many of the concepts of.....certain places." Hence sentence (3) is the correct choice.
- 122.(5) Refer to the fifth sentence of the second paragraph, "As an art movement..... a fossil." Hence sentence (5) is correct in context of the passage.
- 123.(1) Refer to the second and third sentences of the first paragraph, "It is almost tempting..... atleast misleading." Hence sentence (1) is the correct choice.
- 124.(3) Refer to the last sentence of the first paragraph, "Beyond this, new..... further explorations." Hence sentence (3) is the correct choice.
- 125.(5) The answer can be implied from the last few sentences of the second paragraph of the passage.
- 126.(4) Bequeath means transmit. Hence it has the same meaning as cede. Abscond means to run away. Arcane means requiring secret or mysterious knowledge. Punctilious means marked by precise accordance with details. Scurrilous means expressing offensive reproach.
- 127.(4) Disseminate means spread (something, especially information) widely. Hence it has the opposite meaning to conceal. Sanguine means confidently optimistic and cheerful. Staid means characterized by dignity and propriety. Ubiquitous means being present everywhere at once. Umbrage means a feeling of anger caused by being offended.
- 128.(4) 'generously' is the correct word to make the sentence meaningful. 'grudgingly' means in a reluctant manner. 'lavishly' means in a luxurious manner.
- 129.(1) 'grumbling' is the correct word to make the sentence meaningful. 'grumbling' means complaining. 'perverting' means distort. 'nagging' means persistently painful or worrying. 'vexing' means annoying.
- 130.(5) No improvement is required here.
- 131.(3) 'pace' is the correct word to make the sentence meaningful. Demeanor means outward behavior or bearing.

- 132.(2) 'justifies' is the correct word to make the sentence meaningful.
Assert means declare.
- 133.(4) The paragraph talks about purchasing of land by Maharashtra government under the Maharashtra Industrial Development Corporation Act or the National Highway Act instead of choosing to purchase under According to the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013. The sentence before the blank is about land pooling option which government is offering to the farmers for Mumbai-Nagpur expressway. Hence the blank must be filled by the sentence related to land pooling. Sentence (d) is correct here as it mentions about land pooling which is a convenient method of land acquisition.
Hence option (4) is the correct option.
- 134.(2) The given paragraph is about the statement given by Nobel laureate Malala Yousafzai against the violence in Myanmar. Sentences before the blank specify about the innocent children who were killed in the violence and their homes have burnt. Hence the blank must be filled by the sentence related to the children who were affected by the violence. Going through the sentences, we find that sentence (2) goes correctly as it talks about the children who may survive if their homes would not be in Myanmar. Hence option (2) is the correct choice. All other sentences are irrelevant.
- 135.(3) The paragraph talks about the loss of natural forests and communities by the Mahan coal mine which was allocated to a joint venture of Essar and Hindalco Limited by the Union Ministry of Coal. The sentences before the blank talk about the loss of five lakh trees, livelihoods and destruction in the area of perennial rivers. The sentence after the blank is about the clearing the way for other coal mines if this coal block gets cleared. Hence the blank must be filled by the sentence related to these arguments. After reading all the given sentences, we infer that sentence (3) is correct as it is about the coal mines which are violating the FRA act apart from creating havoc to livelihoods and nature.
Hence sentence (3) is the correct option.
- 136.(5) The paragraph is about the protests by the science society against the government for not allocating appropriate resources to them. The sentences before the blank is about diversion of resources from scientific pursuits to pseudoscientific preoccupations by the government resulted to the protest by the Indian scientific community. The sentence after the blank is about the protesters marching through more than 30 towns and cities. Hence the blank must be filled by the sentence related to this issue. Sentence (5) which tells about the response by the Breakthrough Science Society goes correctly and making the paragraph complete. All other sentences are irrelevant.
Hence sentence (5) is the right option.
- 137.(2) The paragraph here is about global cooling which is a phenomenon occurring every year since 1997 by the massive land use pattern and green revolution. The sentence before the blank talks about the causes of moisture in the air which results in the formation of fog. Hence the blank must be filled by the sentence which tells about these weather conditions. Sentence (2) is correct as it tells about the fog increasing the cold waves. Hence sentence (2) is the correct choice.
- 138.(3) Sentence (3) is correct.
In Sentence (1), in place of 'was', 'were' will be used as the subject of the sentence 'the issues' is in plural form. In sentence (2), 'indicated' is used in place of 'indicates' as the second half of the sentence is in past tense.
- 139.(2) Sentence (2) is correct.
In Sentence (1), 'for' is the correct use instead of 'since' as 'for' is used with Period of Time. In sentence (3), 'has' will be used in place of 'have' as 'has' is used for singular subject. In sentence (4), the use of 'deteriorated' is wrong as the sentence is in present perfect continuous tense. Hence 'deteriorating' is the correct word.
- 140.(3) Sentence (3) is correct.
In sentence (1), 'start' will be used in place of 'started' as the use of tense is wrong. In sentence (2), the use of 'in which' is wrong as the preposition depends on the verb that takes a preposition. In Sentence (4), the use of 'at which' is wrong as after the verb 'reach', prepositions 'to' or 'at' is not used.
- 141.(4) Sentence (4) is correct.
In sentence (1), the use of 'lied' is wrong as its meaning is not correct for making the sentence meaningful. In sentence (2), the use of 'it' is wrong as 'it' is used for asingular subject or object. In sentence (3), the use of 'take' is wrong as the sentence talks about the past.
- 142.(1) Sentence (1) is correct.
Sentence (3) is wrong as the sentence starting with 'scarcely, hardly, rarely, seldom', 'auxiliary verb + subject' is used. Hence 'had we' is used in place of 'we had'. In sentence (2), the use of preposition 'at' is wrong. In sentence (4), the use of 'are' is incorrect.
- 143-147. The sequence of the sentences after rearrangement is CFADBE.
- 143.(5) 144.(1)
145.(1) 146.(2) 147.(4)
148.(4) 'breakthrough, consolidate, suffered' is a set of words making the sentence meaningful.
Dissuade means to accuse or to defend.
Affiliate means officially attach or connect (a subsidiary group or a person) to an organization.
- 149.(1) 'severely, clear, waning' is a set of words making the sentence meaningful.
Vindicate means show or prove to be right, reasonable, or justified.
Exculpate means show or declare that (someone) is not guilty of wrongdoing.
Eloquent means clearly expressing or indicating something.
- 150.(4) 'aspirations, appeal, contributed' is a set of words making the sentence meaningful.
Emulation means effort to match or surpass a person or achievement, typically by imitation.
Apathy means lack of interest, enthusiasm, or concern.
- 151.(4) 'gambled, lasted, favour' is a set of words making the sentence meaningful.
Ventured means undertake a risky or daring journey or course of action.

- 152.(5) 'combat, scrutiny, intrusive' is a set of words making the sentence meaningful.
Intrusive means causing disruption or annoyance through being unwelcome or uninvited.
Brazen means bold and without shame.
- 153.(3) Referring to the first paragraph of the passage which indicates that China is making a shift from a manufacturing-led growth model fuelled by low-cost labour to an innovation-led, higher-value-added model underpinned by strong productivity gains and Urbanization is facilitating that shift. Moreover, China needs the prosperity and an engine of dynamism which is getting high-level attention nowadays.
Hence both the sentences (I) and (II) are correct.
- 154.(2) Referring to the second paragraph of the passage, we infer that China is called as 'Factory of the world' as it is a leading centre for manufacturing products.
Hence sentence (2) is correct in context of the passage.
- 155.(5) Referring to the third paragraph of the passage, we conclude that all of the given statements are correct.
- 156.(3) Refer to the fourth paragraph of the passage "China's leaders seem to be eyeing a second greater bay area, centered on Hangzhou Bay, which, because it overlaps with the Yangtze River Delta, could go a long way towards integrating that already-prosperous region", hence sentence (3) is correct in context of the passage.
- 157.(2) "China's shift to city-led growth" is an appropriate theme of the passage as the passage is about China, transforming from a manufacturing-led growth model to an innovation-led or city led growth. Hence option (b) is the correct choice.
- 158.(1) Refer to the first paragraph of the passage "Indeed, in pursuing rapid industrialization, megacities have often been less successful than smaller cities...." Hence sentence (1) is not a part of the passage.
- 159.(4) Leverage means support. Hence it has the same meaning as succour.
Annunciate means announce.
Relegate means assign to a lower position.
Proclivity means a natural inclination.
Pithy means concise and full of meaning.
- 160.(2) Alleviate means make (suffering, deficiency, or a problem) less severe. Hence it has opposite meaning to aggravate.
Extricate means free (someone or something) from a constraint or difficulty.
Promulgate means promote or make widely known (an idea or cause).
Digress means deviate.
Onerous means not easily borne.
- 161.(3) Compiler is primarily used for programs that translate source code from a high-level programming language to a lower level language
- 162.(3) Static random-access memory (static RAM or SRAM) is a type of semiconductor memory that uses bi stable latching circuitry (flip-flop) to store each bit.
- 163.(1) TeamViewer is a proprietary computer software package for remote connection, desktop sharing, online meetings, web conferencing and file transfer between computers.
- 164.(2) Through edit we can make changes.
- 165.(3) In relational database, data is arranged in rows and columns.
- 166.(5) Walter Houser Brattain was an American physicist, along with John Bardeen and William Shockley, invented the point-contact transistor.
- 167.(3) Ctrl + D is the shortcut key to open font dialog box.
- 168.(1) PARAM is a series of supercomputers designed and assembled by the Centre for Development of Advanced Computing (C-DAC) in Pune, India. The latest machine in the series is the PARAM Kanchenjunga.
- 169.(1) Address Resolution Protocol – The TCP/IP protocol used to dynamically bind high level IP address to a low level physical hardware address. ARP is used across a single physical network and is limited to networks that support hardware broadcast
- 170.(2) Deleted data remains on a disk until the recycle bin is emptied
- 171.(3) A software bug is an error, flaw, failure or fault in a computer program or system that causes it to produce an incorrect or unexpected result, or to behave in unintended ways.
- 172.(4) All of the above statements are true about Motherboard
- 173.(2) Norton Anti Virus is an anti-malware software. It uses signature and heuristic to identify virus. Other features included in it are e-mail spam filtering and phishing protection.
- 174.(1) MIDI stands for Musical Instrument Digital Interface, is a technical standard that describes a protocol, digital interface and connectors and allows a wide variety of electronic musical instruments, computers and other related devices to connect and communicate with one another.
- 175.(4) Transport Layer used TCP and UDP protocol.
- 176.(1) The Manchester Mark 1 was one of the earliest stored-program computers. It performs long services of arithmetic and logical operations.
- 177.(1) Video Monitor is the display unit which is the primary output device for a computer system.
- 178.(2) Pascal is the only programming language among given options.
- 179.(3) In computing, Trojan horse, or Trojan, is any malicious computer program which is used to hack into a computer by misleading users of its true intent.
- 180.(4) All the given options are functions of operating system.
- 181.(2) Data is collection of unprocessed items.
- 182.(2) Manipulation of data by a computer is called processing. It includes the conversion of raw data to machine-readable form, flow of data through the CPU and memory to output devices, and formatting or transformation of output. Any use of computers to perform defined operations on data can be included under data processing.
- 183.(5) It is a movable indicator on a computer screen identifying the point that will be affected by input from the user.
- 184.(2) A motherboard is one of the most essential parts of a computer system. It holds together many of the crucial components of a computer, including the central processing unit (CPU), memory and connectors for input and output devices.
- 185.(1) Ctrl+F is the short cut key combination that can be used to search in Windows Explorer.
- 186.(4) Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a

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- database. It is part of the Java Standard Edition platform, from Oracle Corporation.
- 187.(3) Broadcast slideshow is a feature available under Slide Show Tab in PowerPoint.
- 188.(1) In First Generation mainly batch processing operating system were used.
- 189.(4) Utility software is system software designed to help analyse, configure, optimize or maintain a computer.
- 190.(4) In the late 1940s by John von Neumann, proposed that a program be electronically stored in binary-number format in a memory device so that instructions could be modified by the computer as determined by intermediate computational results.
- 191.(5) Cut and Paste moves data and Copy and Paste replicates data.
- 192.(2) 255.255.0.0 is a valid subnet mask for class B IP.
- 193.(3) Cookies are small files which are stored on a user's computer. They are designed to hold a modest amount of data specific to a particular client and website, and can be accessed either by the web server or the client computer.
- 194.(1) SMTP stands for Simple Mail Transfer Protocol
- 195.(3) A network switch is a computer networking device that connects devices together on a computer network, by using packet switching to receive, process and forward data to the destination device.
- 196.(2) A byte = 8 bits and a bit is either 0 or 1
- 197.(2) Encryption is the most effective way to achieve data security. To read an encrypted file, you must have access to a secret key or password that enables you to decrypt it. Unencrypted data is called plain text; encrypted data is referred to as cipher text.
- 198.(2) Peer-to-peer (P2P) computing or networking is a distributed application architecture that partitions tasks or workloads between peers.
- 199.(4) A hierarchical database model is a data model in which the data is organized into a tree-like structure. The hierarchical database model mandates that each child record has only one parent, whereas each parent record can have one or more child records.
- 200.(1) Phishing trips are attempts by individuals to obtain confidential information from you by falsifying their identity.