

# Solutions

## Solutions

1. Ans. A.

You ask "questions" and not "comments" or "money". Thus, only "questions" fits in the first blank. Here the context is about a document that needs to be commented upon within a limited period of time. Thus, "window" does not fit here and "period" makes proper sense.

2. Ans. C.

When we talk about disease we can't use words like growth, responsibility, tax and charge. These words do not support the word disease. Also, for the second blank the disease has huge impact at household, family and individual level makes the most sense.

3. Ans. A.

The overall context of the statement is positive. Hence, the fillers need to be positive in tone. Among the given options, 'advanced, enhanced' fits the blanks most suitably.

4. Ans. C.

Unmoved means not affected by emotion or excitement.

Elongating means to make (something) longer, especially unusually so in relation to its width.

Lethargic means affected by lethargy; sluggish and apathetic.

Unconcerned means showing a lack of worry or interest, especially when this is surprising or callous.

Stretching means (of something soft or elastic) be made or be capable of being made longer or wider without tearing or breaking.

Apathetic means showing or feeling no interest, enthusiasm, or concern.

"Unmoved" should be followed by the preposition "by" and not "to", thus, option A can be eliminated. "Lethargic" and "bored" are inappropriate for the first blank. Had the management been apathetic, the strike would have concluded instead of extending. Hence, option D is not apt for the blanks. The words given in option C fit the blank most appropriately.

5. Ans. B.

Measure (noun)- action, initiative

All events, measures, ideas, design and plans can be introduced, but in the given sentence only "measures" is correct. The context here is of a company taking some important steps for its benefits, hence, "events" is irrelevant. "Idea", "design" and "plan" are in singular and must be preceded by the article 'a'/'an', hence all these words do not fit in the first blank. Having established the required word for the first blank, "quality" fits in the second one. Thus, option B is the correct answer.

6. Ans. D.

Refer to the last question of the series.

7. Ans. A.

Refer to the last question of the series.

8. Ans. D.

Refer to the last question of the series.

9. Ans. B.

Refer to the last question of the series.

10. Ans. C.

To choose the correct sequence it is very important to understand the central theme so that one can assume the series of events that could have happened. The central theme is the delay of payments of NREGS workers so it is obvious that there must be an introductory statement regarding the same.

Hence, the third (C) statement comes first in sequence.

Statements D, E, F and A talk about the issue and the probable solution proposed by the government. While statement B talks about the assumed reason for the problem. So, after the problem has been introduced it is logical to introduce the probable reason hence statement B is the second statement also in the correct sequence. Statements D, E, F in the same order talk about the solution advocated by the government and how it is to be manifested. Statement A is more of a concluding statement which shows the pitiful condition of the workers hence it is the sixth statement in the sequence.

Therefore, the correct sequence is: C, B, D, E, F, A.



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11. Ans. A.

The error lies in the first part of the sentence. The event has a past reference as implied by the presence of '2014' in the last part of the sentence. Hence, it should be 'disclosed' and not disclose.

Therefore, **option A** is the correct answer.

12. Ans. D.

The error lies in the last part of the sentence. A threat is the possibility of trouble, danger, or ruin. The threat is not of national security but the threat is to the national security. Therefore, 'of' must be replaced with 'to' to make the sentence grammatically correct. Hence, **option D** is the correct answer.

13. Ans. A.

The error is in the **first part** of the sentence. The first part of the sentence requires an adjective to modify the noun 'discussions'. However, an adverb is used in the sentence which is erroneous.

Therefore, replace 'extensively' with 'extensive' to form a grammatically correct sentence.

Hence, **option A** is the correct answer.

14. Ans. B.

The context of the sentence is that the party has been forced to bring Uma Bharti into election campaign because other leaders are not willing to work and are sulking. The use of 'neither-nor' is erroneous as it creates a condition of double negation and showcase incorrect meaning.

It should be '**either sulking or shrinking work**' to render the correct meaning.

Hence, **option B** is the correct answer.

15. Ans. C.

The error is in the third part of the statement. 'And' is superfluous and must be omitted to convey the correct meaning.

Therefore, **option C** is the correct answer.

16. Ans. D.

Option (i) is incorrect because we can derive information about an insuree only to some extent and the insuree will always have an upper hand in this regard no matter how costly the investigation may be. Refer to these lines, "... it is hard for the insurance company to collect information about how people actually drive".

Option (ii) is correct as "adverse selection can strangle an insurance market".

Option (iii) is incorrect because raising premium can render the insurance policy futile for some customers due to higher premium than the risk involved. According to the passage, "If the insurance company tries to raise its premiums to cover the losses of those with high risks, then those with low or medium risks will be even more discouraged from buying insurance."

Hence, option D is the correct response.

17. Ans. D.

According to the passage, "This creates an asymmetric information problem for the insurance company because buyers who are at high-risk tend to buy more insurance, without letting the insurance company know about their higher risk." Thus, option D is the correct answer.

18. Ans. D.

Since the calculation made by the company in the given context is above the risk involved in the insured product for low and medium risk groups, they will opt out from buying the policy. Secondly, it will be profitable for high risk groups due to their high risk tendency. On the other hand, selling of policy only to high risk groups will result in huge losses for the company. Hence, Option D i.e 'All of the above' is the correct answer.

19. Ans. B.

According to the passage, "the insurance company might find some way of separating insurance buyers into risk groups with some degree of accuracy and charging them accordingly, which in practice often means that the insurance company tries not to sell insurance to those who may pose high risks." Alternative (ii) can be inferred from it. Thus, option B is the correct answer.

20. Ans. C.

According to the passage, "The notion that people can be required to purchase insurance raises the issue of government laws and regulations that influence the insurance industry." This clearly indicates that some people can be made to purchase insurance policies despite of the low risks. Thus, option C is the apt answer.

21. Ans. C.

The whole passage deals with the challenge posed by the asymmetry of information between the insurance company and the policy buyer. The incomplete information results in a problem known as adverse selection. Thus, option C is the correct answer.

22. Ans. C.

According to the passage, "... because buyers who are at high-risk tend to buy more insurance, without letting the insurance company know about their higher risk." This means customers hide the information from the insurance companies and they do not let the companies know everything.

Thus, option C is the correct answer.

23. Ans. E.

"Pose" means to "constitute or present" and is especially used in the context of a problem or danger. Therefore, the most similar word is "present". So, option E is the correct answer.

24. Ans. A.

The word "asymmetric" means "to not be in correct proportion" whereas "apposite" means "fitting or right". Hence, the most opposite word is "Apposite". Thus, option A is the correct answer.

Lopsided- biased; one-sided

25. Ans. D.

The word "strangle" means "to kill a person by squeezing a throat". Here the given word is used in its figurative sense. Hence, the most similar word in meaning is "kill".

Malaise- unhappiness

Rejuvenate- revive

26. Ans. E.

The answer to this is 'No correction required.'

The above sentence is correct.

27. Ans. C.

Clearly article 'a' can't be used in the given sentence since it precedes office.

The sentence talks about 'an office', hence option A can be eliminated since it says 'are not an office'.

'the profit' is incorrect since there is a definite article.

Option C makes the sentence grammatically as well as structurally correct, hence keep it on hold.

'has not be an office' makes the sentence incorrect.

Hence, option C is correct.

28. Ans. B.

"As compared to" is a common phrase and using the preposition "on" makes the sentence incorrect. Hence, choice "B" is correct.

29. Ans. B.

In the above sentence, 'to' should be used instead of 'too'. 'to' is used to indicate concern while 'too' is used as "excessively". The correct answer is option B.

30. Ans. C.

Out of all the options, the most suitable preposition is 'of', as it is used to express belongingness. Here the freedom belongs to the movement. Thus, C is correct.

31. Ans. C.

The word 'verve' means 'enthusiasm' and does not convey any meaning here. The word 'savory' means 'appetizing or acceptable' and does not convey any meaning here. The word 'confrontation' means 'conflict' and conveys the correct meaning. The word 'resolving' before the blank makes it clear that option 3 fits here perfectly. The word 'macrocosm' means 'the whole of any sphere or department of nature or knowledge to which man is related' and makes no sense here. Thus C is the correct answer.

32. Ans. B.

The word 'foment' means 'to promote' and does not fit here. The word 'intransigence' means 'refusal to change one's views or to agree about something' and conveys the correct meaning. The word 'fallow' means 'inactive' and does not fit here. The word in the blank must be a noun to fit here grammatically. The word 'magistracy' means 'the office or dignity of a magistrate' and makes no sense here. The word 'malevolence' means 'ill-will' and does not fit here appropriately.

33. Ans. A.

The word 'faze' means 'disturb or disconcert (someone)' and fits here correctly. The word 'impugn' means 'challenge or question' and does not fit in the context. The word here must be the impact of the words on Doval. The



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word 'dismember' which means 'divide up' does not fit here too. Thus option A is the correct answer.

34. Ans. E.

The word 'schism' means 'a split' and can fit here but is less appropriate than the word 'contention' which means 'a conflict'. The whole passage talks about the conflict so option E fits here the best. The word 'malady' means 'Any physical disease or disorder especially a chronic or deep-seated one' and is irrelevant here. The word 'mallet' means 'a wooden hammer' and is out of context. Thus E is the correct answer.

35. Ans. D.

The word 'offended' means 'annoyed' and conveys the incorrect meaning. The word 'ascended' means 'went up' and fits here correctly. The word 'triumphed' means 'gained victory' and conveys the correct meaning. Thus D is the correct answer.

36. Ans. E.

The word 'belligerent' means 'demonstrating aggression and willingness to fight' and the word 'bellicose' means the same. They convey the correct meaning for the reason of the aggression. The word 'redound' means 'come back' and does not convey any meaning here.

37. Ans. B.

The word 'renegade' means 'traitor' and does not fit here. The word 'disengage' means 'remove or detach' and conveys the correct meaning. The word 'exhume' means 'to dig up' and does not mean anything. The sentence makes a clear meaning when option B fits here as it talks about China's recede. The word 'mandate' means 'a command' and does not fit here. The word 'manor' means 'The landed estate of a lord or nobleman' and is irrelevant.

38. Ans. E.

The word 'opposition' means 'resistance' and 'defiance' means 'confrontation', both of which fit here. The previous part of the sentence talks about defeat so the second part of the sentence must be the opposite. Option E fits here correctly. The word 'mantel' means 'the facing sometimes richly ornamented about a fireplace including the usual shelf above it' and does not fit here. The word 'marvel' means 'To

be astonished and perplexed because of (something)' and does not make any meaning.

39. Ans. C.

The word 'masquerade' means 'A social party composed of persons masked and costumed so as to be disguised' and does not convey any meaning. The word 'intrepid' means 'characterized by fearlessness and endurance' and does not convey any meaning here. The word 'coercion' means 'the action or practice of persuading someone to do something by using force or threats' and fits here correctly as the sentence talks about a practice of China. The word 'drone' means 'an idle person' and does not fit here grammatically or logically.

40. Ans. C.

The word 'equivocal' means 'subject to different interpretations, intentionally misleading' and does not convey any meaning. The word 'maudlin' means 'Foolishly and tearfully affectionate' and does not make any sense here. The word 'unviable' means 'not capable of working successfully; not feasible' and fits here correctly. The sentence states a disadvantage of China. Thus the word 'unviable' fits here.

41. Ans. B.

In row 1, M, G, L, N, E and H are seated and all of them are facing south. In row 2, J, O, Q, V, W and X are seated and all of them are facing north.

- H sits third to the right of L.
- Either H or L sits at an extreme end of line.
- The one who faces L sits second to the right of X.
- N and M are immediate neighbours.
- M does not face the immediate neighbour of W.
- Q sits second to the left of O.
- There are two persons between J and V and neither is at an extreme end of line.
- The Immediate neighbour of J faces the person who sits third to the left of G.

According to above statement, we conclude:

ROW 1/SOUTH	G	E	H	M	N	L
ROW 2/NORTH	Q	V	O	X	J	W



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42. Ans. D.

In row 1, M, G, L, N, E and H are seated and all of them are facing south. In row 2, J, O, Q, V, W and X are seated and all of them are facing north.

- H sits third to the right of L.
- Either H or L sits at an extreme end of line.
- The one who faces L sits second to the right of X.
- N and M are immediate neighbours.
- M does not face the immediate neighbour of W.
- Q sits second to the left of O.
- There are two persons between J and V and neither is at an extreme end of line.
- The Immediate neighbour of J faces the person who sits third to the left of G.

According to above statement, we conclude:

ROW 1/SOUTH	G	E	H	M	N	L
ROW 2/NORTH	Q	V	O	X	J	W

43. Ans. E.

In row 1, M, G, L, N, E and H are seated and all of them are facing south. In row 2, J, O, Q, V, W and X are seated and all of them are facing north.

- H sits third to the right of L.
- Either H or L sits at an extreme end of line.
- The one who faces L sits second to the right of X.
- N and M are immediate neighbours.
- M does not face the immediate neighbour of W.
- Q sits second to the left of O.
- There are two persons between J and V and neither is at an extreme end of line.
- The Immediate neighbour of J faces the person who sits third to the left of G.

According to above statement, we conclude:

ROW 1/SOUTH	G	E	H	M	N	L
ROW 2/NORTH	Q	V	O	X	J	W

44. Ans. C.

In row 1, M, G, L, N, E and H are seated and all of them are facing south. In row 2, J, O, Q, V, W and X are seated and all of them are facing north.

- H sits third to the right of L.

- Either H or L sits at an extreme end of line.
- The one who faces L sits second to the right of X.
- N and M are immediate neighbours.
- M does not face the immediate neighbour of W.
- Q sits second to the left of O.
- There are two persons between J and V and neither is at an extreme end of line.
- The Immediate neighbour of J faces the person who sits third to the left of G.

According to above statement, we conclude:

ROW 1/SOUTH	G	E	H	M	N	L
ROW 2/NORTH	Q	V	O	X	J	W

45. Ans. B.

In row 1, M, G, L, N, E and H are seated and all of them are facing south. In row 2, J, O, Q, V, W and X are seated and all of them are facing north.

- H sits third to the right of L.
- Either H or L sits at an extreme end of line.
- The one who faces L sits second to the right of X.
- N and M are immediate neighbours.
- M does not face the immediate neighbour of W.
- Q sits second to the left of O.
- There are two persons between J and V and neither is at an extreme end of line.
- The Immediate neighbour of J faces the person who sits third to the left of G.

According to above statement, we conclude:

ROW 1/SOUTH	G	E	H	M	N	L
ROW 2/NORTH	Q	V	O	X	J	W

46. Ans. D.

मंजिल संख्या	व्यक्ति
8	C
7	H
6	A
5	F
4	B
3	E
2	D
1	G



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47. Ans. A.

मंजिल संख्या	व्यक्ति
8	C
7	H
6	A
5	F
4	B
3	E
2	D
1	G

48. Ans. B.

मंजिल संख्या	व्यक्ति
8	C
7	H
6	A
5	F
4	B
3	E
2	D
1	G

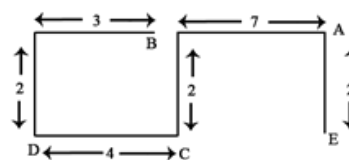
49. Ans. E.

मंजिल संख्या	व्यक्ति
8	C
7	H
6	A
5	F
4	B
3	E
2	D
1	G

50. Ans. E.

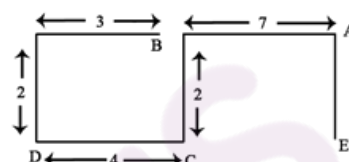
मंजिल संख्या	व्यक्ति
8	C
7	H
6	A
5	F
4	B
3	E
2	D
1	G

51. Ans. B.



Point A is 8 m towards east from Point B

52. Ans. D.



C & D would fall in a straight line.

53. Ans. D.

As per the question,  
 $A3 > A5(\text{Rs } 13999) > A4 > A1 > A2(\text{Rs } 8000)$

So the expected price of the mobile phone of A4 can be either Rs 12000 or Rs 9000.

54. Ans. E.

As per the question,  
 $A3 > A5(\text{Rs } 13999) > A4 > A1 > A2(\text{Rs } 8000)$

55. Ans. E.

Monday	G	Orange	Delhi
Tuesday	A	Green	Mumbai
Wednesday	B	Blue	Jaipur
Thursday	C	Black	Indore
Friday	F	Red	Pune
Saturday	E	Pink	Goa
Sunday	D	White	Kolkata

56. Ans. D.

Monday	G	Orange	Delhi
Tuesday	A	Green	Mumbai
Wednesday	B	Blue	Jaipur
Thursday	C	Black	Indore
Friday	F	Red	Pune
Saturday	E	Pink	Goa
Sunday	D	White	Kolkata

57. Ans. E.

Monday	G	Orange	Delhi
Tuesday	A	Green	Mumbai
Wednesday	B	Blue	Jaipur
Thursday	C	Black	Indore
Friday	F	Red	Pune
Saturday	E	Pink	Goa
Sunday	D	White	Kolkata



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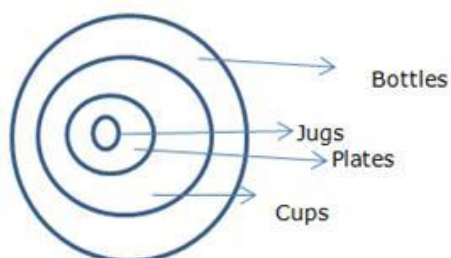
58. Ans. A.

Monday	G	Orange	Delhi
Tuesday	A	Green	Mumbai
Wednesday	B	Blue	Jaipur
Thursday	C	Black	Indore
Friday	F	Red	Pune
Saturday	E	Pink	Goa
Sunday	D	White	Kolkata

59. Ans. A.

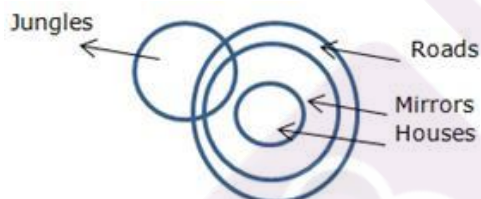
Monday	G	Orange	Delhi
Tuesday	A	Green	Mumbai
Wednesday	B	Blue	Jaipur
Thursday	C	Black	Indore
Friday	F	Red	Pune
Saturday	E	Pink	Goa
Sunday	D	White	Kolkata

60. Ans. E.



Hence both the conclusions are true.

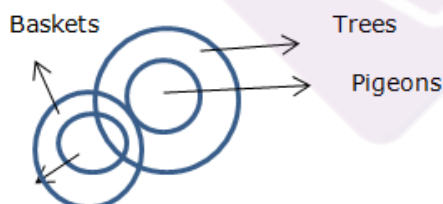
61. Ans. D.



All jungles cannot be roads and neither can all jungles be houses.

Hence option D is correct.

62. Ans. A.

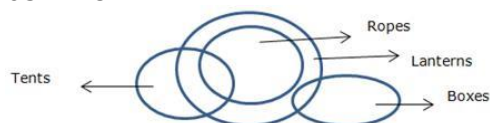


Channels

Some baskets are trees but no channels are pigeons.

Hence option A is correct.

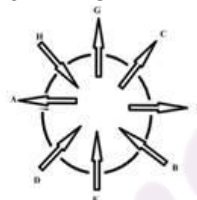
63. Ans. B.



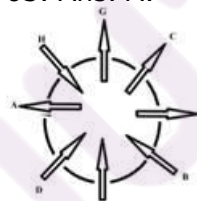
No boxes are tents but some lantern are tents.

Hence option B is correct.

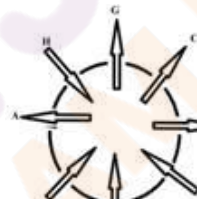
64. Ans. D.



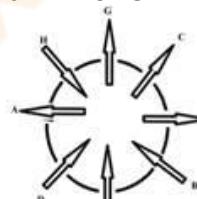
65. Ans. A.



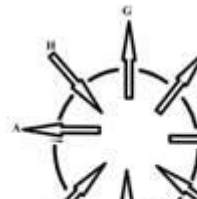
66. Ans. B.



67. Ans. C.



68. Ans. D.

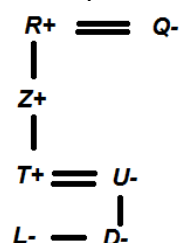


D & A have opposite direction.



69. Ans. B.

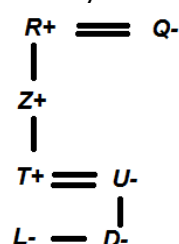
Family tree:



T is the only son of Z, so X will be daughter of Z. Hence X is sister-in-law of U. So the answer is b).

70. Ans. D.

Family tree:



U is Mother of L. So answer is D).

71. Ans. B.

Average number of girls studying in all the standards together

$$= \left( \frac{15 + 10 + 25 + 22.5 + 25 + 17.5}{6} \right) \times 100$$

$$= \frac{11500}{6}$$

$$= 1916.66$$

$$\approx 1917 (\text{approx})$$

72. Ans. A.

Total number of boys studying in all the standards together

$$= (12.5 + 15 + 22.5 + 20 + 22.5 + 15) \times 100$$

$$= 10750$$

Number of boys studying in class VI

$$= 15 \times 100 = 1500$$

$$\text{Required percentage} = \frac{1500}{10750} \times 100$$

$$= 13.95$$

73. Ans. C.

$$\text{Total number of boys in all Standard} = (12.5 + 15 + 22.5 + 20 + 22.5 + 15) \times 100 = 10750$$

$$\text{Total number of girls in all Standard} = (15 + 10 + 25 + 22.5 + 25 + 17.5) \times 100 = 11500$$

Total number of students studying in all the standards together

$$= 11500 + 10750 = 22250$$

Number of girls studying in class V

$$= 25 \times 100$$

$$= 2500$$

$$\text{Required percentage} = \frac{2500}{22250} \times 100$$

$$= 11.24$$

$$\approx 11 (\text{approx})$$

74. Ans. E.

Number of boys studying in class IV

$$= 20 \times 100 = 2000$$

Number of girls studying in class I

$$15 \times 100 = 1500$$

$$\text{Required ratio} = 2000 : 1500 = 4 : 3$$

75. Ans. D.

$$\text{Total number of students studying in class III} = (22.5 + 25) \times 100 = 4750$$

$$\text{Total number of students studying in class IV} = (20 + 22.5) \times 100$$

$$= 4250$$

$$\text{Required percentage} = 4750 : 4250$$

$$= 19 : 17$$

76. Ans. C.

Solution-

$$64 + (1 \times 2) = 66$$

$$66 + (2 \times 3) = 72$$

$$72 + (3 \times 4) = 84$$

$$84 + (4 \times 5) = 104$$

$$104 + (5 \times 6) = 134$$

77. Ans. D.

Solution:

The pattern of the given series is

$$\Rightarrow 23$$

$$\Rightarrow 23 + 14 \times 1 = 37$$

$$\Rightarrow 37 + 14 \times 2 = 65$$

$$\Rightarrow 65 + 14 \times 3 = 107$$

$$\Rightarrow 107 + 14 \times 4 = 163$$

$$\Rightarrow 163 + 14 \times 5 = 233$$

$$\therefore ? = 233$$

78. Ans. A.

The pattern is :

$$\frac{100}{2} + 2 = 50 + 2 = 52$$

$$\frac{52}{2} + 2 = 26 + 2 = 28$$

$$\frac{28}{2} + 2 = 14 + 2 = 16$$

$$\frac{16}{2} + 2 = 8 + 2 = 10$$

$$\frac{10}{2} + 2 = 5 + 2 = 7$$

79. Ans. D.

The pattern is + 6, + 12, + 18, + 24 .....

So the missing term is = 68 + 30 = 98

80. Ans. A.

9, 45, 180, 540, ? 1080

$\times 5, \times 4, \times 3, \times 2, \times 1$

so 9, 45, 180, 540, **1080**, 1080

81. Ans. D.

It is given that in 4 hours  $X + Y + Z = 144$

..... (I)

And given that

$$X - Y = Y - Z$$

$$\text{So } X + Z - 2Y = 0 \text{ .....(II)}$$

From equation (I) and (II)

$Y = 48$ , hence,  $X = 56$  and  $Z = 40$

So,  $B - C = 48 - 40 = 8$

It is for 4 hours, so per hour =  $8/4 = 2$

Hence (D) is the correct option.

82. Ans. A.

let  $b$  be the breadth of rectangle and length be the  $3b$

ATQ

Area of rectangle =  $1.5 \times$  area of square

$$b \times 3b = 1.5 \times 15 \times 15$$

$$b = \frac{15}{\sqrt{2}}$$

$$l = 3 \times \frac{15}{\sqrt{2}} = \frac{45}{\sqrt{2}}$$

so perimeter of rectangle =  $2(l+b) = 84.8$

83. Ans. B.

Let the unit digit be  $x$ .

In a two digit number, the ten's digit is 2 more than the square of unit digit.

So, the ten's digit =  $x^2 + 2$ .

So, the number =  $10(x^2 + 2) + x$

$$= 10x^2 + 20 + x$$

And, the reverse number =  $10x + (x^2 + 2)$

$$= 10x + x^2 + 2$$

According to the question, we can write,

$$(10x^2 + 20 + x) - (10x + x^2 + 2) = 18$$

$$\Rightarrow 9x^2 - 9x = 0$$

$$\Rightarrow x^2 - x = 0$$

$$\Rightarrow x(x - 1) = 0$$

Then,  $x = 0$  or  $x = 1$

So, the value of unit digit = 1

Then, the ten's digit =  $2 + 1^2 = 3$

$\therefore$  The original number = 31

84. Ans. C.

Let the speed of the stream is  $S$ .

$$\frac{36}{10-s} - \frac{36}{10+s} = \frac{90}{60}$$

by checking through options

Put  $x=2$

$$(36/8) - (36/12) = 3/2$$

85. Ans. A.

total runs =  $40 \times 50 = 2000$ , let his highest

score be  $x$ , then his lowest score =  $x-172$

$$\{2000 - X - (X-172)\} / 38 = 48$$

$$2x = 2172 - 1824 \text{ and } x = 174$$

86. Ans. B.

Let the son's age be  $y$  and father's age be  $4y$ .

After five years, father's age will be three times his son age.

$$(4y + 5) = 3(y + 5)$$

$$y = 10$$

After 5 years it was  $(4y + 5)$ , then after

further 5 years, father's age =  $(4y + 10)$  and

son's age =  $(y + 10)$

$$(4y + 10) / (y + 10) = ?$$

Substituting the value of  $y$ , we get

$$[(4 \times 10) + 10] / [10 + 10] = 5/2 = 2.5$$

After another 5 years, father will be 2.5 times of son's age.

87. Ans. A.

Sum of initial selling price =

$$36000 \times 1.15 + 40000 \times 1.25 = 41400 + 50000 = 91400$$

Sum of final selling price =

$$36000 \times 1.25 + 40000 \times 1.15 = 45000 + 46000 = 91000$$

Therefore, required ratio =  $91400 : 91000 = 457 : 455$

So option (a) is the correct answer.

88. Ans. B.

From the table,

Number of employees of Infosys = 3200

Number of employees of Adobe = 1200

Number of employees of Ericsson = 4500

Number of employees of Oracle = 1500

Given, ratio of male to female in Infosys = 5 : 3

Number of females in Infosys =  $(3/8) \times 3200$   
= 1200

Ratio of male to female in Adobe = 2 : 1

Number of females in Adobe =  $(1/3) \times 1200$   
= 400

Ratio of male to female in Ericsson = 5 : 4

Number of females in Ericsson =  $(4/9) \times 4500$   
= 2000

Ratio of male to female in Oracle = 2 : 3

Number of females in Oracle =  $(3/5) \times 1500$   
= 900

Ratio between the number of females working in Infosys and Adobe together to the number of females working in Ericsson and Oracle together =  $(1200 + 400)/(2000 + 900) = 16 : 29$

89. Ans. B.

From the table,

Number of employees of TCS = 4400

Ratio of male to females in TCS = 5 : 6

Number of male employees in TCS =  $(5/11) \times 4400 = 2000$

Number of employees of Wipro = 2600

Ratio of male to female employees in Wipro = 6 : 7

Number of male employees in Wipro =  $(6/13) \times 2600 = 1200$

% by which number of male employees in TCS is greater than the number of male employees in Wipro

$$= \frac{2000 - 1200}{1200} \times 100\%$$

$$= 66.67\%$$

90. Ans. B.

From the table,

Number of employees of Infosys = 3200

Given, ratio of male to female in Infosys = 5 : 3

Number of females in Infosys =  $(3/8) \times 3200$   
= 1200

Let the number of people who left be 'a'.

Given, some male employees left Infosys and the people who replaced them were all females.

New ratio is 3 : 2.

Fraction of females =  $2/5$

$$\Rightarrow \frac{1200 + a}{3200} = \frac{2}{5}$$

$$\Rightarrow 1200 + a = 1280$$

$$\Rightarrow a = 80$$

91. Ans. A.

Number of employees of TCS = 4400

Ratio of male to females in TCS = 5 : 6

Number of male employees in TCS =  $(5/11) \times 4400 = 2000$

Number of employees of Wipro = 2600

Ratio of male to female employees in Wipro = 6 : 7

Number of male employees in Wipro =  $(6/13) \times 2600 = 1200$

Number of employees of Ericsson = 4500

Ratio of male to female in Ericsson = 5 : 4

Number of male employees in Ericsson =  $(5/9) \times 4500 = 2500$

Number of employees of Oracle = 1500

Ratio of male to female in Oracle = 2 : 3

Number of male employees in Oracle =  $(2/5) \times 1500 = 600$

Difference between the total number of males working in TCS and Wipro together and the number of male employees working in Ericsson and Oracle together =  $2000 + 1200 - (2500 + 600) = 100$

92. Ans. C.

From the table,

Number of people employed in Adobe = 1200

10% people leave the job

People remaining =  $1200 - 10\% \text{ of } 1200 = 1080$

Male to female ratio = 2 : 1

Since the people left in the same ratio

Number of females remaining =  $(1/3) \times 1080 = 360$

Number of males remaining =  $(2/3) \times 1080 = 720$

Now, they recruit only females such that ratio is equal to that of Ericsson's

Ratio of male to female employees for Ericsson = 5 : 4

Let the number of female employees recruited be 'a'



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$$(720)/(360+a) = 5/4$$

$$\Rightarrow a = 216$$

Thus, number of female recruited is 216.

93. Ans. E.

$$I. 2x^2 - 33x + 91 = 0$$

$$2x^2 - 26x - 7x + 91 = 0$$

$$2x(x-13) - 7(x-13) = 0$$

$$(2x-7)(x-13) = 0$$

$$x = 7/2, 13$$

$$II. 2y^2 - 39y + 70 = 0$$

$$2y^2 - 4y - 35y + 70 = 0$$

$$2y(y-2) - 35(y-2) = 0$$

$$(2y-35)(y-2) = 0$$

$$y = 2, 35/2$$

**No relation can be established.**

94. Ans. B.

$$x^2 - 32x + 255 = 0$$

$$x^2 - 15x - 17x + 255 = 0$$

$$x(x-15) - 17(x-15) = 0$$

$$(x-15)(x-17) = 0$$

$$x = 15, 17$$

$$y^2 - 39y + 378 = 0$$

$$y^2 - 18y - 21y + 378 = 0$$

$$y(y-18) - 21(y-18) = 0$$

$$(y-18)(y-21) = 0$$

$$y = 18, 21$$

**y > x**

95. Ans. C.

**After simplifying the equations**

$$x^2 - 31x + 234 = 0$$

$$x^2 - 13x - 18x + 234 = 0$$

$$x(x-13) - 18(x-13) = 0$$

$$(x-13)(x-18) = 0$$

$$x = 13, 18$$

$$y^3 = 9261$$

$$y = 21$$

**y > x**

96. Ans. E.

Relationship can't be established

$$I. 11p^2 - (44 - 6)p - 24 = 0$$

$$\therefore p = 4, -\frac{6}{11}$$

$$II. q^2 - (6 - 5)q - 30 = 0$$

$$\therefore q = 6, -5$$

97. Ans. D.

$$x = -1, 1/2$$

$$y = 5/3, 1/2 \text{ hence, } x \leq y$$

98. Ans. C.

Let the principal be P.

$$P(1+18/100)^2 - P(1+18/100) = 2655$$

$$P = \text{Rs.} 12500$$

OR

$$\text{Interest for first year} = 18\% \text{ of } P = 0.18P$$

$$\text{Interest for second year} = \text{Interest of first year} + \text{Interest on Interest of first year}$$

$$= 0.18P + (18/100) * 0.18P = 2655$$

$$P = 12500$$

99. Ans. C.

$$\text{Total balls} = 50$$

$$\text{Blue balls} = x$$

$$\text{Probability of selection of 1 blue ball} = \frac{x}{50}$$

$$\text{Probability of selection of 2 blue balls} =$$

$$\frac{x \times (x-1)}{50 \times 49}$$

$$\text{Now } \frac{x}{50} - \frac{x(x-1)}{50 \times 49} = \frac{8}{49}$$

$$X = 10 \text{ or } 40$$

100. Ans. E.

	A	B
Ratio 1	4	1

Now, 10 Lt. of the mixture was taken out in the same ratio 4:1.

After adding 10 Lt. of mixture ratio of A and B becomes 2:3.

As, we are adding B in the mixture the quantity of A will remain same.

$$\text{Ratio 2} \quad \quad \quad 2 \quad \quad \quad 3$$

Now we have to make A same.

	A	B
Ratio 1	4	1
Ratio 2	$2*2 = 4$	$3*2 = 6$
		$6-1 = 5$

$$5 = 10 \text{ Lt.}$$

$$1 = 2 \text{ Lt.}$$

$$\text{Final capacity of mixture} = 5*2 = 10 \text{ Lt.}$$

As, 10 Lt. of mixture was removed.

$$\therefore \text{Initial Quantity of mixture} = 10 + 10 = 20 \text{ Lt.}$$

$$\text{Initial quantity of A} = (4*20)/5 = 16 \text{ Lt.}$$



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101. Ans. C.

BRICS summit 2016 was held in Goa, India. The 8th BRICS summit was held from **15 to 16 October 2016** at the Taj Exotica hotel in Benaulim, Goa, India. The logo represents the map of Goa with the BRICS participants national flags (Brazil, Russia, India, China, South Africa).

102. Ans. D.

The **68th UN General Assembly** has declared 2016 as the **International Year of Pulses (IYP)**.

103. Ans. D.

World Malaria Day (WMD) is being observed every year on **25 April** across the world to recognize the global efforts to control preventable vector borne disease malaria. **Note:** The World Malaria Day was established by the 60th session of the World Health Assembly, a decision-making body of World Health Organization (WHO) in May 2007.

104. Ans. B.

**Gorumara National Park** is a National Park in northern **West Bengal**, India located in the **terai region** of the Himalayan foothills.

**Note:** It is a medium-sized park with grasslands and forests.

105. Ans. C.

Copenhagen is the capital and most populated city of Denmark. The **krone** is the official currency of **Denmark**.

106. Ans. B.

The euro is the official currency of Austria. It is the second most traded currency in the foreign exchange market after the United States dollar. The euro is subdivided into 100 cents.

Vienna is the capital of Austria.

107. Ans. D.

Ujwal DISCOM Assurance Yojna or UDAY. UDAY provides for the financial turnaround and revival of Power Distribution companies (DISCOMs), and importantly also ensures a sustainable permanent solution to the problem.

108. Ans. E.

Indian Test skipper **Virat Kohli honoured with the Polly Umrigar Award** by the Board of Control for Cricket in India (BCCI) for being

the country's top international cricketer during 2014-15.

He won the award for the second time after winning it first in 2011-12.

109. Ans. C.

The 2017 Women's Cricket World Cup was held in England.

The 2017 ICC Women's World Cup Final was played between England and India. England won the game by nine runs to secure their fourth World Cup title.

110. Ans. D.

The Indian government has launched the **National Framework** for Malaria Elimination (NFME) **2016-2030**, which outlines the country's strategy for elimination of the disease by 2030. The incidence of malaria in the country is at **0.08%** in a population of nearly 1.25 billion.

111. Ans. B.

Arvind Adiga is the author of the book "The White Tiger". For this novel Arvind Adiga win the Man Booker prize in 2008.

112. Ans. D.

The 7<sup>th</sup> edition of India, Seychelles joint military exercise LAMITYE 2016 held in Victoria, Seychelles.

113. Ans. E.

Under the scheme, the loans are for greenfield enterprises in the non-farm sector and will range between Rs 10 lakh and Rs 1 crore. These bank loans would be **repayable up to 7 years**.

The scheme will be a refinance window through **Small Industries Development Bank of India (SIDBI)** with an initial amount of **Rs.10,000 crore**.

114. Ans. C.

Mysore has emerged as the cleanest city for the second year in a row while **Chandigarh, Tiruchirapalli, the New Delhi Municipal Council** and Visakhapatnam make up the top five, a nationwide survey by the Urban Development (UD) ministry has found. The other in the dirty list included **Dhanbad, Asansol, Patna, Meerut, Raipur, Ghaziabad, Jamshedpur, Kalyan Dombivilli and Itanagar**.

115. Ans. A.

The **State Bank of India** (SBI) launched '**Japan Desk**', a first-of-its-kind initiative to facilitate Japanese corporates looking to **invest in India** with banking and advisory services.

The Japan Desk based in **New Delhi** facilitates in the establishment of banking relationship with Japanese corporates and Japanese nationals, provide information on industries, sectors etc.

116. Ans. A.

The Union Government has constituted a committee headed by filmmaker Shyam Benegal for holistic interpretation of the provisions of the Cinematograph Act.

117. Ans. A.

French firm to make 800 'super high-power' locomotives in India.

Indian Railways partnered with French company Alstom to manufacture 800 "super high-power" locomotives and decided to set up the factory in Madhepura, Bihar. "The factory will produce 800 locomotives of 12,000 horsepower each.

118. Ans. D.

Prime Minister Narendra Modi inaugurated the 103rd edition of the Indian Science Congress (ISC) in Mysuru, Karnataka. The theme of this edition of the Congress is "Science and Technology for Indigenous Development in India."

119. Ans. C.

Woody Island is the largest of the Paracel Islands in the South China Sea, with an area of 2.1 square kilometres. It has a population of more than 1,000 people, with roads, banks and a "small" air strip.

120. Ans. B.

West Bengal Finance Minister **Amit Mitra** has been named as the new chairman of the empowered committee of state Finance ministers that is working out the details of the proposed **goods and services tax** (GST).

121. Ans. B.

Apka Bhala and Sabki Bhalayi" is the tagline of Bandhan Bank.

Bandhan Bank Ltd. is an Indian banking and financial services company headquartered in

Kolkata, West Bengal. Bandhan, which started as a micro-finance company in 2001, received banking licence by Reserve Bank of India in 2014. Bandhan Bank became the 8th largest bank in India by market capitalization.

122. Ans. A.

The **United States** has decided to sell eight nuclear-capable **F-16 fighter jets** to Pakistan. India expressed its disappointment with the US decision.

123. Ans. C.

Aamir Khan and his wife **Kiran Rao's** NGO **Paani Foundation** will work in association with the Maharashtra government towards solving **the water crisis** in the state.

124. Ans. C.

Mahamana Madan Mohan Malviya (25 December 1861 - 1946) was the chief mentor of Banaras Hindu University, Government of India embellished him with Bharat Ratna on December 24, 2014.

125. Ans. C.

The South Eastern Coalfields Limited (SECL), a subsidiary of the Coal India Limited (CIL), will set up India's largest coal washery with a capacity of **25 million tonnes per annum**(MTPA) in Korba district of **Chhattisgarh**. The project will be known as **Kusmunda coal washery**. The washery would be built in **41.23 hectare area** in villages Durpa and Jarhajer in Korba, about 250 km from Raipur.

**Note:-** The existing largest coal washery is also located in **Korba** district.

126. Ans. C.

The top seeded Indo-Swiss pair Sania Mirza and Martina Hingis has won the 2016 **St. Petersburg Ladies' Trophy**.

127. Ans. D.

**Japan** has successfully launched the **ASTRO-H X-ray astronomy satellite** via its H-IIA rocket to study black holes.

**Note:-**ASTRO-H is a **high-energy astronomy mission** led by the Japan Aerospace Exploration Agency (JAXA). The satellite is **14 meters** long and **weighs 2.7 tons** and is equipped with **four X-ray telescopes** and two gamma-ray detectors.

128. Ans. B.

**2016 G20 Summit** held in - **Hangzhou**, China. It was the first ever G20 summit to be hosted in China and the second Asian country to host the Summit. Before China, Seoul, South Korea, hosted the 2010 G20 Summit. **Note:** The theme of 2016 G20 Summit was - **Toward an Innovative, Invigorated, Interconnected and Inclusive World Economy.**

The **2017 G20 Summit** will be held in **Hamburg, Germany**, under the leadership of Angela Merkel

129. Ans. C.

The well-known Indian lyricist **Sameer Anjaan** has been officially recognised by Guinness Books of World Records for composing the 3,524 songs for 650 Bollywood movies, as verified on December 15, 2015. **Note:-**He is included as a **Guinness World Record** holder under a new category titled '**Most prolific Bollywood lyricist**'. With this, he become the **first ever lyricist** to enter the Guinness Book of World Records.

130. Ans. A.

**Rajaji National Park** is spread over **820 km<sup>2</sup>** and three districts of **Uttarakhand: Saharanpur, Dehradun and Pauri Garhwal**. It has been named after **C. Rajagopalachari(Rajaji)**, a prominent leader of the freedom struggle.

131. Ans. B.

BIOS (basic input/output system) is the program a personal computer's microprocessor uses to get the computer system started after you turn it on. It also manages data flow between the computer's operating system and attached devices such as the hard disk, video adapter, keyboard, mouse and printer.

132. Ans. E.

**ToggleKeys** is a feature of **Microsoft Windows**. It is an accessibility function which is designed for people who have vision impairment or cognitive disabilities. When **ToggleKeys is turned on**, the computer will provide sound cues when the locking keys (Caps Lock, Num Lock, and Scroll Lock) are pressed. A high-pitched sound plays

when the keys are switched on and a low-pitched sound plays when they are switched off.

133. Ans. D.

HTML (**Hypertext Markup Language**) is the set of **markup symbols** inserted in a file intended for display on a World Wide Web browser page.

**Note:-** The markup tells the **Web browser** how to display a Web page's words and images for the user.

134. Ans. B.

A data warehouse is organized around important subject areas. A **data warehouse** (DW or DWH), also known as an enterprise **data warehouse** (EDW), is a system used for reporting and **data** analysis. DWs are central repositories of integrated **data** from one or more disparate sources.

A data warehouse is a subject-oriented, integrated, time-variant and non-volatile collection of data in support of management's decision making process.

135. Ans. B.

**Dynamic memory allocation** is the allocation of memory storage for use in a computer program during the runtime of that program.

**Note:** It can be seen also as a way of distributing ownership of limited memory resources among many pieces of data and code.

136. Ans. C.

**Authentication** is a process in which the **credentials** provided are compared to those on file in a **database** of authorized users' information on a local **operating system** or within an **authentication** server.

137. Ans. A.

Microsoft **Windows** is a meta family of graphical **operating systems** developed, marketed and sold by **Microsoft**. It consists of several families of operating systems, each of which cater to a certain sector of the computing industry.

138. Ans. A.

An **algorithm** is a self-contained **step-by-step** set of operations to be performed.

Algorithms exist that **perform calculation**, data processing and automated reasoning.

139. Ans. C.

**Hybrid computers** are computers that exhibit features of analog computers and digital computers.

The digital component normally serves as the controller and provides logical and numerical operations, while the analog component often serves as a solver of differential equations and other mathematically complex equations.

140. Ans. D.

**Large-scale integration** (LSI) is the process of integrating or embedding thousands of transistors on a single silicon semiconductor microchip. LSI technology was conceived in the **mid-1970s** when computer processor **microchips** were under development.

**Note:-** LSI is no longer in use. It was succeeded by very large-scale integration (**VLSI**) and ultra large-scale integration (**ULSI**) technologies.

141. Ans. B.

Gutter margin is a typographical term used to designate an additional margin added to a page layout to compensate for the part of the paper made unusable by the binding process.  
Note:

When two pages of content are combined next to each other, the space between the two pages is known as the gutter.

142. Ans. C.

A **scanner** is a device that captures images from photographic prints, posters, magazine pages, and similar sources for computer **editing** and **display**.

143. Ans. B.

This **fifth generation** is based on parallel processing hardware and **Artificial Intelligence** software.

**Note:-** AI is an emerging branch in computer science, which interprets means and method of making computers think like human beings.

144. Ans. C.

Magnetic Ink **Character** Recognition Code (MICR Code) is a **character**-recognition technology used mainly by the **banking industry** to ease the **processing** and clearance of **cheques** and other **documents**.

145. Ans. A.

A **database** is a collection of information that is organized so that it can easily be accessed, managed, and updated. Databases can be classified according to types of content, bibliographic, full-text, numeric and images.

Oracle Database is a multi-model database management system produced and marketed by Oracle Corporation.

146. Ans. B.

A **modem** (modulator-demodulator) is a device that **modulates** one or more carrier wave signals to encode digital information for transmission and **demodulates** signals to decode the transmitted information.

147. Ans. C.

Application software is a program or group of programs designed for end users. These programs are divided into two classes: System software and Application software.

148. Ans. A.

A **draft** is simply an **email message** you haven't **yet sent**. It's not the same thing as an email waiting to be sent. This act places the message into the **Drafts folder**.

149. Ans. D.

Danish computer scientist **Bjarne Stroustrup** invented and developed widely used **C++ programming language**.

150. Ans. C.

The computer's capability of distinguishing spoken words is called **voice recognition**. Computer analysis of the human voice, especially for the purposes of interpreting words and phrases or identifying an individual voice.

151. Ans. D.

The hexadecimal numeral system is a numeral system made up of 16 symbols (**base 16**). It uses **sixteen distinct symbols**, most often the symbols **0–9** to represent values **zero to nine**, and A, B, C, D, E, F (or alternatively a, b, c, d, e, f) to represent values ten to fifteen.

152. Ans. A.

The term **multimedia** was coined by singer and artist **Bob Goldstein** to promote the **July 1966** opening of his "**Light Works at L'Oursin**" show at **Southampton**, Long Island.



153. Ans. B.

MS word find command is used to search the text or phrase in a document

154. Ans. B.

**COBOL** stands for **Common Business Oriented Language**. The US Department of Defense, in a conference, formed **CODASYL** (Conference on Data Systems Language) to develop a language for business data processing needs which is now known as **COBOL**.

155. Ans. E.

Linux is a Unix-like computer operating system assembled under the model of free and open-source software development and distribution.

156. Ans. B.

Freeware is copyrighted computer software which is made available for use free of charge, for an unlimited time.

157. Ans. D.

A MIDI (Musical Instrument Digital Interface) interface is a device that provides MIDI In/Out

to and from a computer or MIDI-equipped hardware via standard 5-pin MIDI jacks.

158. Ans. C.

In computer networks, to download is to **receive data** from a remote system, typically a **server** such as a **web server**, an FTP server, an email server, or other similar systems.

159. Ans. C.

The operating system that is self-contained in a device and resident in the ROM is Embedded Operating System. An **embedded operating system** is a specialised OS for use in the computers built into larger **systems**. Note: An **embedded system** is a computer that is part of a different kind of machine.

160. Ans. A.

The **Domain Name System** (DNS) is a hierarchical distributed **naming system** for computers, services, or any resource connected to the Internet or a private network.