

- (a) Only (ii) (b) Both (i) and (iii)  
 (c) Both (i) and (ii) (d) Only (i).  
 (e) All of the above
76. What is the challenge that is faced by China?  
 (a) Need to fulfill the enormous demands of more than a billion Chinese people who have recently escaped from poverty.  
 (b) Adapting to the model adopted by the other countries so as to not get isolated.  
 (c) Growing pressure from the international market.  
 (d) Opening the country to the outside world  
 (e) None of these
77. Which of the following statement is false?  
 (a) Low cost of labour in China is key to attract foreign investment.  
 (b) Achieving self-perfection of socialism is a reason for China's incredible growth  
 (c) Developing country can suffer economically due to globalization.  
 (d) China is facing a much fiercer competition at home compared to international markets.  
 (e) None of these.

**DIRECTIONS (78-82):** Rearrange the following Six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

A-It is the only country in the world that is carbon negative, which means it produces more oxygen than it consumes.

B-Bhutan, sandwiched between the two most populous nations on Earth, suffers for their sins.

C-So far, so good. But then, two things happened.

D-Carbon sinks, 70% forest cover, powered almost entirely by mountain streams—Bhutan is a poster child for green living.

E-Glaciers are beginning to melt, flash floods and heavy rains—and even droughts—are common, and temperatures are climbing.

F-One, India and China got richer.

78. Which of the following should be the First sentence of the given paragraph?  
 (a) E (b) D  
 (c) C (d) B  
 (e) A
79. Which of the following should be the Third sentence of the given paragraph?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
80. Which of the following should be the LAST sentence of the given paragraph?  
 (a) A (b) C  
 (c) B (d) D  
 (e) E

81. Which of the following should be the Fourth sentence of the given paragraph?

(a) F (b) C  
 (c) B (d) E  
 (e) D

82. Which of the following should be the Second sentence of the given paragraph?

(a) B (b) D  
 (c) A (d) C  
 (e) E

**DIRECTIONS (Q.83-90):** In the following passage, you have a brief passage. In the following passage, some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given.

Big ideas come from tackling --83-- problems. When one is confronted with an overwhelming task, it's pieces. Business jargon is full of phrases about that, like "pilot projects" and "low-hanging fruit." They have their place, but in the repertory of management --84---, they should share their place with bold approaches to big challenges. Much of today's most valuable management knowledge came from wrestling with such issues. The most complicated workplace in the middle of the last century was the automobile assembly plant. Drawn to its complexity where Peter F. Drucker, W. Edwards Deming, and Taiichi Ohno, among others. The work they and their disciples did, applied in industry after industry, is the basis of the best that we know about operations, managing people, innovation, organizational design, and much more.

The most complex workplaces are tertiary care hospitals. These vast --85-- employ tens of thousands of people who, under one roof, do everything from neurosurgery to laundry. Each patient -- that is to say, each "job" -- calls on a different set of people with a different constellation of --86---; even when the two patients have the same diagnosis, success may be --87-- differently. This is complexity of an order of magnitude greater than automobile assembly, and anyone who --88--- hospitalized knows that management has thus far been unequal to the scope of task. The workers, managers, consultants, and scholars --89-- crack this nut will reshape industries and institutions just as ---90--- as Drucker, Deming, and Ohno did.

83. (a) Small (b) big  
 (c) Irrelevant (d) Buildings  
 (e) minor
84. (a) Weakness (b) Strength  
 (c) Power (d) practice  
 (e) symptom
85. (a) houses (b) institute  
 (c) demagogue (d) Forts  
 (e) enterprises
86. (a) Barbarity (b) talent  
 (c) skills (d) unskilled  
 (e) barbaric
87. (a) managed (b) Officious  
 (c) Delivered (d) measured  
 (e) postponed

88. (a) are been (b) have being  
(c) have been (d) has been  
(e) is be
89. (a) who (b) whom  
(c) whose (d) which  
(e) whomsoever
90. (a) Profoundly (b) gradually  
(c) superficially (d) speciously  
(e) earnest

**DIRECTIONS (91-100):** Identify the error in the sentences given below, if there is no error, click option (e).

91. (a) The need to set up  
(b) a good library in the locality  
(c) has been in the minds of people  
(d) for some time now  
(e) No error
92. (a) Most people would have  
(b) attended the union meeting  
(c) if they had  
(d) had longer notice of it.  
(e) No error
93. (a) He took to  
(b) reading Times  
(c) for better knowledge  
(d) of the facts.  
(e) No error
94. (a) When children have difficulty understanding  
(b) a certain mathematical process, it is often because  
(c) their teachers do not understand it conceptually  
(d) themselves and do not present it in a way that children can understand.  
(e) No error.
95. (a) Studies show that the lives of millions of mothers  
(b) and their children could be saved if countries would  
(c) invest in programs that ensures a healthy pregnancy,  
(d) and safe childbirth.  
(e) No error.
96. (a) Film viewers claim that  
(b) the number of scenes depicting alcohol consumption  
(c) have increased dramatically over  
(d) the last decade.  
(e) no error
97. (a) Forty percent of the people alive today have  
(b) never made a phone call, but  
(c) thirty percent still have no electricity connections  
(d) to their homes.  
(e) no error
98. (a) Workers with less  
(b) personal problems are  
(c) likely to be  
(d) more productive in their work.  
(e) no error.
99. (a) Everyone who visits Singapore  
(b) is impressed by its cleanliness,  
(c) which is mainly a result of rigorous implementation  
(d) of their strict laws.  
(e) No error
100. (a) The bridal dress was  
(b) most unique: the prince  
(c) designed it and his  
(d) mother provided the lace fabric.  
(e) No error

# HINTS & SOLUTIONS

1. (a) Let Principal =  $x_1, x_2$  and  $x_3$   
 $x_1 \times 4 \times 10 = x_2 \times 8 \times 15 = x_3 \times 12 \times 20$   
 $x_1 = 3 \times 2 = 6 \times 3$   
 $x_1 : x_2 = 3 : 1; x_2 : x_3 = 2 : 1$   
 $x_1 : x_2 : x_3 = 6 : 2 : 1$
2. (c) According to Question  
 $P \times (1 + 4/100)^8 = (3903 - P) \times (1 + 4/100)^{10}$   
 After solving we get  $P = 2028$
3. (c)  $\frac{1^{\text{rd}}}{3}$  at 12% loss =  $\frac{900}{3} = 300 \times \frac{88}{100} = 264$   
 $900 \times \frac{18}{100} = 108$   
 $\Rightarrow 600 + 162 + 36 = 798$   
 $\frac{198}{600} \times 100 = 33\%$
4. (a) Speed of the truck =  $\frac{376}{8} = 47$  kmph  
 Now, Speed of car = (Speed of truck + 18) kmph  
 $= (47 + 18) = 65$  kmph  
 Distance travelled by car =  $376 + 14 = 390$  km  
 Time taken by car =  $\frac{390}{65} = 6$  hours.
5. (c) Relative speed =  $(60 + 90)$   
 Time =  $\frac{(1.10 + 0.9)}{150} = \frac{1}{75}$  hr  
 1 hour \_\_\_\_\_ 3600 sec  
 $1/75$  hr \_\_\_\_\_ ?  
 $? = 3600/75 = 48$  sec
6. (d) James' age =  $F - 30$   
 Sister's age =  $F - 35$   
 According to Question  
 $M = 24 + \text{Sister's age}$   
 $M = 24 + F - 35$   
 $F - M = 11$
7. (b) Average monthly expenditure for 3 months = ₹ 2750  
 Total expenditure for 3 months = ₹  $2750 \times 3 = ₹ 8250$   
 Average monthly expenditure for 3 months = ₹ 2940  
 Total expenditure for 3 months = ₹  $2940 \times 3 = ₹ 8820$   
 Average monthly expenditure for 3 months = ₹ 3150  
 Total expenditure for 3 months = ₹  $3150 \times 3 = ₹ 9450$   
 Total savings for 9 months = 4980  
 Average monthly income for 9 months =  $(8250 + 8820 + 9450 + 4980)/9 = 3500$
8. (b)  $1/8 + 1/12 + 1/C = 1/4$ , we get  $C = 24$  days  
 Now efficiency of A, B and C are in the ratio :  $1/8 : 1/12 : 1/24$   
 $3:2:1$ , so share of C is  $1/6 \times 1200 = 200$
9. (b) Pipe A's work in % =  $100/10 = 10\%$   
 Pipe B's work in % =  $100/20 = 5\%$   
 Pipe C's work in % =  $100/40 = 2.5\%$   
 All of them are opened for 2 hours + after 2 hours, tap C is closed + After the 4th hour, tap B is also closed = 100  
 $\Rightarrow (10 + 5 + 2.5) \times 2 + (10 + 5) \times 2 + \text{work done by tap A alone} = 100$   
 $\Rightarrow 35 + 30 + \text{work by tap A alone} = 100$   
 $\Rightarrow \text{work by tap A alone} = 100 - 65 = 35\%$
10. (c) Boys =  $4x$  and girls =  $7x$   
 Ratio =  $4x \times 125/100 : 7x \times 115/100 = 100:161$
11. (e) Go on dividing by 6 to the next number.
12. (b)  $139 + 3 = 142$   
 $142 - 9 = 133$   
 $133 + 27 = 160 \dots$   
 $160 - 81 = 79$   
 $79 + 243 = \boxed{322}$
13. (d)  $164 - 4 = 160/4 = 40$   
 $40 + 4 = 44 \times 4 = \boxed{176}$   
 $176 - 4 = 172/4 = 43$   
 $43 + 4 = 47 \times 4 = 188$   
 $188 - 4 = 184/4 = 46$
14. (b)  $96/0.3 = 320$   
 $320/0.4 = 800$   
 $800/0.5 = 1600$   
 $1600/0.6 = \boxed{2666.7}$
15. (b)  $6/2 + 1^2 = 4$   
 $4/2 + 2^2 = 6$   
 $6/2 + 3^2 = 12$   
 $12/2 + 4^2 = 22$   
 $22/2 + 5^2 = \boxed{36}$
16. (b)  $(x + 13)(x + 17) = 0$   
 $x = -13, -17$   
 $y^2 - 53y + 196 = 0$   
 $y = 49, 4$   
 Hence,  $x < y$
17. (b)  $2x^2 - 9x + 10 = 0$   
 $x = 2.5, 2$   
 $y^2 - 18y + 72 = 0$   
 $y = 12, 6$   
 Hence,  $x < y$
18. (e)  $x(35 - x) = 124$   
 $x = 31, 4$   
 $y(2y + 3) = 90$   
 $y = -7.5, 6$

19. (b)  $1/(x-3) + 1/(x+5) = 1/3$   
 $x^2 - 4x - 21 = 0$   
 $x = 7, -3$   
 $(y+2)(27-y) = 210$   
 $y^2 - 25x + 156 = 0 \Rightarrow y = 12, 13$   
 $x < y$
20. (a)  $\sqrt{36x} + \sqrt{64} = 0$   
 $6x + 8 = 0$   
 $x = -1.33$   
 $\sqrt{81y} + (4)^2 = 0$   
 $9y + 16 = 0$   
 $y = -1.77$   
Hence,  $x > y$
21. (a) 22. (c)
23. (b)  $(46/100)? = 46916$   
 $? = (46916 \times 100)/46 = 101991.3$
24. (c)  $27 + 0.04 = 27.04/8 = 3.38$   
 $3.38 \times 134.567 = 454.8 = 455$
25. (a)  $24.92 \times 13.95 = 347.634$   
 $625 - 347.634 = 277.37$
26. (d) From the table we clearly seen that highest % increase is for D in Feb. i.e 25%
27. (a) The greatest absolute change in the market value is 20 i.e. In the month of March the share of A =  $115 - 95 = 20$
28. (a) The greatest percentage change in any share was recorded for share D for the month of February viz. 25%
29. (d) Due to share value changes the maximum loss is 10 for the month of June. Hence the answer is (d).
30. (a) From the above table again we can see that the individual's highest gain is ₹ 5.
31. (c) Average production =  $(700+900+600+400+1000+800)/6 = 733.33 = 733$
32. (c)  $A = (500 \times 100)/700 = 71.42\%$   
 $B = (800 \times 100)/900 = 88.88\%$   
 $C = (400 \times 100)/600 = 66.66\%$   
 $D = (300 \times 100)/400 = 75\%$   
 $E = (700 \times 100)/1000 = 70\%$   
 $F = (600 \times 100)/800 = 75\%$
33. (b)  $P = 900 + 600 = 1500$   
 $S = 800 + 400 = 1200$   
 $P : S = 1500 : 1200 = 5 : 4$
34. (d)  $S = 300 + 700 + 600 = 1600$   
 $P = 400 + 1000 + 800 = 2200$   
 $S/P = (1600 \times 100)/2200 = 72.72\%$
35. (a)  $P = 700 + 900 + 600 + 400 + 1000 + 800 = 4400$   
 $S = 500 + 800 + 400 + 300 + 700 + 600 = 3300$   
 $P:S = 4400 : 3300 = 4 : 3$
36. (a)  $P > Q = R < T < S$  (Both expression true)
37. (e)  $A = B > C = D < E = F$  and  $A = B > C <= D < E = F$   
 $(F > C \text{ true in both cases})$

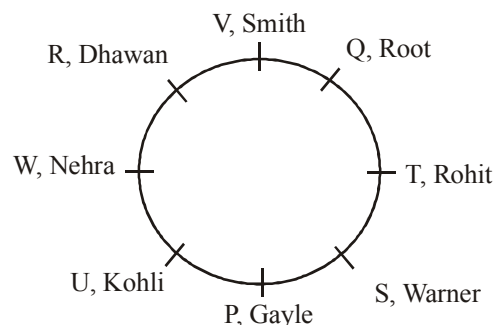
38. (a)  $T > = R < = Q > P = S$  (clearly  $Q > S$  and no relation between Q and T)
39. (c)  $A > N < = K > M < R$  (no relation between M and N and R and A)
40. (e)  $A = B > C > D < E$  and  $A = B > C >= D < E$  in both cases B will be greater than D
41. (d) All sharpeners are erasers is a possibility, so I does not follow. II not definite.
42. (b) If all rectangles are cones, then some circles will be cones which is not possible.  
II is a possibility.
43. (e) All rectangles are cones is not a possibility, so I follows.  
No square is cone, because no circle is cone
44. (b) I is not definite. Reds can be yellows. So only II follows
45. (b) If some yellows are greens, then some blues will be yellows which is not possible.  
II is a possibility.
46. (b)

**Sol. (47-51):**



47. (b) Three
48. (a) A 49. (c) Four
50. (a) EC 51. (c) D
52. (c)
53. (e) K daughter of H, H father of P, so K and P siblings, now Q to be mother of K - P must be son or daughter of Q. so both  $\times$  and  $+$ .
54. (c) B wife of P, P son of Z, Z father of K - so P and K siblings, K daughter of O So Z and O husband wife, P and K brother sister, B wife of P So B is daughter-in-law of O
55. (b) J father of P, and S son of A now given that A is the sister of J.  
Now A and J siblings. P is J's child, and S is A's, so both first cousins.

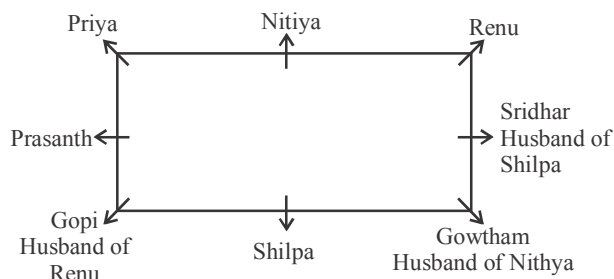
**Sol. (56-60)**





56. (d) Gayle  
57. (c) R  
58. (d) T  
59. (c) Q-Kohli  
60. (b)

**Sol. (61-65)**



61. (d) Priya sits diagonally opposite to Gowtham  
62. (c) Gowtham                      63. (c) Two  
64. (a) Renu                              65. (e) Second to the right

**Sol. (66-70)**

Friend	Specialisation	Sport
Arun	Electrical	Football
Sathish	Hardware	Tennis
Yogesh	Metallurgy	Swimming
Ganesh	Telecommunication	Badminton
Peter	Software	Hockey
Hemanth	Mechanical	Cricket

66. (c) Hardware 67. (a) Football
68. (e) Yogesh-Metallurgy 69. (e) None of these
70. (b) Cricket-Tennis
71. (d) In the 2nd paragraph of the passage it has been stated that how the developing countries are lacking in the infrastructure and expertise because of which they always need to be alert therefore option (d) is the correct choice for the given question. It clearly states that the developed countries have apparent advantages in capital, technology, human resources and administrative expertise and in setting the "rules of the game". They are usually the biggest beneficiaries of globalization. The developing countries on the other hand are on the whole in an unfavourably position. It shows lack of a just and equitable international economic order. Other options in relation to dividends derived from globalization are not fairly distributed are not correct in the given context.
72. (b) The third paragraph clearly states--The reason why China was so successful in such a short period of time and in a constantly changing international environment is because China has found its own road of development. This is implied in option (b) that China created its own model of development without following others. Other options are partially true and option (e) is ruled out.
73. (c) Comprehensive means including or dealing with all or nearly all elements or aspects of something most

suitably describes the Chinese opening to the outside world. Therefore option (c) comprehensive is the most suitable choice. Options (a) and (b) are one of the aspects. Other options are ruled out.

74. (b) In the sixth paragraph it is mentioned that, China has also provided the world with the largest rising market. When more than 1.25 billion people become well-off, the demand on everything will be enormous. Just to give you an example, in the coming 10 years alone, China will import US\$ 2 trillion of goods from the outside world. Therefore option (b) is the correct answer while other options like (a) is not true at all. Option (c) is partially true. Option (d) is not relevant and option (e) is completely ruled out.
75. (a) It is given in the 2nd paragraph of the passage that developing countries are the one that are the biggest beneficiaries. Therefore statement (ii) is correct. Statements (i) and (iii) are incorrect. So option (a) is the correct choice for the given question.
76. (c) In the last paragraph of the passage it is clearly mentioned that, "China is faced with growing pressure from international competition." Therefore option (c) best expresses the desired answer. Option (a) is partially correct but not true in the given context. Option (b) is not mentioned and option (d) is not a challenge.
77. (d) It is not mentioned in the last paragraph of the passage that, China faces fiercer competition at home compared to international markets. Therefore option (d) is the correct choice. Other options are true while option (e) is ruled out.
78. (b) DACFBE will be the right order and it will be:  
Carbon sinks, 70% forest cover, powered almost entirely by mountain streams-Bhutan is a poster child for green living.  
It is the only country in the world that is carbon negative, which means it produces more oxygen than it consumes.  
So far, so good. But then, two things happened.  
One, India and China got richer.  
Bhutan, sandwiched between the two most populous nations on Earth, suffers for their sins.  
Glaciers are beginning to melt, flash floods and heavy rains-and even droughts-are common, and temperatures are climbing.
79. (c) As the correct order is DACFBE, option (c) so far, so good. But then, two things happened, will be the third sentence.
80. (e) As per the given sequence option (e), Glaciers are beginning to melt, flash floods and heavy rains-and even droughts-are common, and temperatures are climbing is the correct choice for the last sentence.
81. (a) The fourth sentence of the given paragraph is the option (a) i. e., 'It is the only country in the world

- that is carbon negative, which means it produces more oxygen than it consumes.'
82. (c) The second sentence will be, So far, so good. But then, two things happened. Therefore option (c) is correct.
83. (b) Big ideas come from tackling big problems. Therefore option (b), big only fits with -big ideas where the other options don't fit.
84. (d) The repertory of management practice is the correct expression. Others do not fit.
85. (e) These vast enterprises employ tens of thousands of people who, under one roof, do everything from neurosurgery to laundry, is the correct expression as enterprises means business or companies.
86. (c) Each patient - that is to say, each "job" - calls on a different set of people with a different constellation of skills, is the correct expression in the given context. Therefore option (c), skills is the right pick.
87. (d) Even when the two patients have the same diagnosis, success may be measured differently is correctly expressed. Option (d) is the only right choice.
88. (d) and anyone who has been hospitalized knows that management has thus far been unequal to the scope of task. Anyone will take singular verb.
89. (a) The workers, managers, consultants, and scholars who crack this nut--- is correctly expressed because the relative pronoun 'who' best fits in the context of the sentence.
90. (a) and institutions just as profoundly as Drucker, Deming, and Ohno did is the correct comparison.
91. (c) 'The need to set up a good library in the locality has been in the minds of the people' is correct. Therefore option (c) requires an article-the, otherwise the expression is not correct.
92. (d) Most people would have attended the union meeting if they had had a longer notice of it. Therefore option (d) is wrong and article 'a' should be used before longer.
93. (b) He took to reading the Times for better knowledge of the facts, is the correct sentence. Therefore in option (b) article 'the' will be used before the name of a newspaper, Time.
94. (a) When children have difficulty in understanding a certain mathematical process, it is often because their teachers do not understand it conceptually themselves and do not present it in a way that children can understand. Therefore option (a) difficulty will take the preposition 'in' to be correctly expressed.
95. (c) Invest in programs that ensure a healthy pregnancy, is the correct use.
96. (c) The number of scenes depicting alcohol consumption has increased dramatically over--- is the right use. Therefore the number as the subject will take a singular verb 'has', in option (c).
97. (b) The provided information is based on a single theme therefore the two parts of the sentence should be connected by conjunction 'and' not by 'but'. The conjunction 'But' is used when the flow of information is in opposite direction.
98. (a) Less is used when you're referring to something that can't be counted or doesn't have a plural, fewer is used for 'countable' and less for 'uncountable'. In the given sentence, since 'problems' are countable, 'fewer' should be used.
99. (d) Here the singular subject Singapore will take pronoun its in option (d).
100. (b) Most unique is the wrong comparative. In option (b) So, it should be 'the gown was unique'.

# IBPS PO MAIN EXAM

Held on 20 Nov, 2016

Based on Memory

## Quantitative Aptitude

1. Ankita borrows ₹ 7000 at simple Interest from a lender. At the end of 3 years, she again borrows ₹ 3000 and settled that amount after paying ₹ 4615 as interest after 8 years from the time she made the first borrowing. What is the rate of interest?  
(a) 5.5% (b) 9.5%  
(c) 7.5% (d) 6.5%  
(e) None of the Above
2. The difference between compound interest compounded every 6 months and simple interest after 2 years is 248.10. The rate of interest is 10 percent. Find the sum  
(a) 12000 (b) 14000  
(c) 16000 (d) 18000  
(e) None of these
3. Deepak found that he had made a loss of 10% while selling his smartphone. He also found that had he sold it for ₹ 50 more, he would have made a profit of 5%. The initial loss was what percentage of the profit earned, had he sold the smartphone for a 5% profit?  
(a) 100% (b) 200%  
(c) 75% (d) 85%  
(e) None of the Above
4. An inspector is 228 meter behind the thief. The inspector runs 42 meters and the thief runs 30 meters in a minute. In what time will the inspector catch the thief?  
(a) 19 minutes (b) 20 minutes  
(c) 18 minutes (d) 21 minutes  
(e) None of these
5. Ashok can row upstream at 8 kmph and downstream at 12 kmph. What is the speed of the stream?  
(a) 6 km/hr (b) 3 km/h  
(c) 2 km/hr (d) 4 km/hr  
(e) 4.5 km/hr
6. James' present age is  $\frac{2}{7}$ th of his father's present age. James' brother is three year older to James. The respective ratio between present ages of James' father and James' brother is 14:5. What is the present age of James?  
(a) 12 years (b) 23 years  
(c) 19 years (d) 27 years  
(e) 13 years
7. The average value of property of Agil, Mugilan and Anitha is ₹ 130cr. The Property of Agil is 20cr greater than the property value of Mugilan and Anitha property value is 50cr greater than the Agil property value. The value of property of Anitha is  
(a) 120 cr (b) 170 cr  
(c) 100 cr (d) 150 cr  
(e) None of these
8. A and B can do a piece of work in 24 and 30 days respectively. Both started the work and worked for 6 days. Then B leaves the work and C joins and the remaining work is completed by A and C together in 11 days. Find the days in which C alone can do the work  
(a) 80 (b) 100  
(c) 120 (d) 130  
(e) None of these
9. Three pipe P, Q and R can fill a tank in 12 minutes, 18 minutes and 24 minutes respectively. The pipe R is closed 12 minutes before the tank is filled. In what time the tank is full?  
(a)  $8\frac{5}{13}$  hrs (b)  $8\frac{4}{13}$  hrs  
(c)  $7\frac{4}{13}$  hrs (d)  $8\frac{6}{13}$  hrs  
(e) None of these
10. A company reduces his employee in the ratio 14 : 12 and increases their wages in the ratio 16:18. Determine whether the bill of wages increases or not and in what ratio.  
(a) Decreases, 28: 27 (b) Increases, 27:28  
(c) Decreases, 29:28 (d) Increases, 28:29  
(e) None of these
11. A slice from a circular pizza of diameter 14 inches is cut in a such a way that each slice of pizza has a central angle of  $45^\circ$ . What is the area of each slice of Pizza(in square inches)?  
(a) 16.25 (b) 19.25  
(c) 18.25 (d) 17.25  
(e) None of the Above
12. 8 litres are drawn from a flask containing milk and then filled with water. The operation is performed 3 more times. The ratio of the quantity of milk left and total solution is  $\frac{81}{625}$ . How much milk the flask initially holds?  
(a) 10 ltr (b) 20 ltr  
(c) 30 ltr (d) 40 ltr  
(e) None of these
13. Two persons A and B invested in a business with 115000 and 75000 rupees respectively. They agree that 40% of the profit should be divided equally among them and rest is divided between them according to their investment. If A got 500 rupee more than B, then the total profit is.  
(a) 3599.34 (b) 699.34  
(c) 3958.34 (d) 999.34  
(e) None of these
14. The ratio of the monthly salaries of A and B is in the ratio 5 : 16 and that of B and C is in the ratio 17 : 18. Find the monthly income of C if the total of their monthly salary is ₹ 1,87,450.  
(a) ₹ 66,240 (b) ₹ 72,100  
(c) ₹ 62,200 (d) ₹ 65,800  
(e) ₹ 60,300

15. Pipes A and B can fill a cistern in 15 hours together. But if these pipes operate separately A takes 40 hours less than B to fill the tank. In how many hours the pipe A will fill the cistern working alone?
- (a) 60 (b) 20  
(c) 40 (d) 15  
(e) 25

**DIRECTIONS (Qs. 16-20) :** In these questions, a number series is given. Find out the missing number.

16. 20 39 74 ? 262 499  
(a) 146 (b) 169  
(c) 166 (d) 139  
(e) 129
17. 14 8 6 6 7 ?  
(a) 6.5 (b) 7.5  
(c) 8.5 (d) 9.5  
(e) None of these
18. 6 13 20 65 256 ?  
(a) 1283 (b) 1756  
(c) 2786 (d) 2686  
(e) None of these
19. 14 6 4 4 8 ?  
(a) 26 (b) 32  
(c) 46 (d) 27  
(e) None of these
20. 6 16 45 184 917 ?  
(a) 5506 (b) 4756  
(c) 5786 (d) 5686  
(e) None of these

**DIRECTIONS (Qs. 21-25) :** In the following questions two equations numbered I and II are given. You have to solve both the equations and give answer.

21.  $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}$   
 $\frac{1}{y-3} + \frac{1}{y+5} = \frac{1}{3}$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relation cannot be established
22.  $5x + 2y = 31$   
 $3x + 7y = 36$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relation cannot be established
23.  $7x + 6y + 4z = 122$   
 $4x + 5y + 3z = 88$   
 $9x + 2y + z = 78$   
(a)  $x < y = z$  (b)  $x \leq y < z$   
(c)  $x < y > z$  (d)  $x = y > z$   
(e)  $x = y = z$  or relation cannot be established
24.  $4x + 2y = 8.5$ ,  $2x + 4y = 9.5$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relation cannot be established
25. I.  $56 \times 2 + 37x + 6 = 0$   
II.  $66y^2 - 13y - 4 = 0$   
(a) if  $x \geq y$  (b) if  $x > y$   
(c) if  $x < y$  (d) if  $x \leq y$   
(e) if the relation between x and y cannot be established.

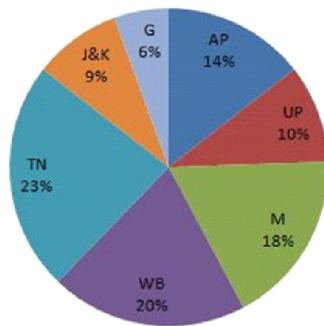
**DIRECTIONS (Qs. 26-30) :** What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

26.  $(1444)^{\frac{1}{2}} + \frac{56.007}{1.225}$  of 123  
(a) 5600 (b) 6550  
(c) 6552 (d) 5662  
(e) 5500
27.  $(0.0144)^{1/2} + (2.5)^2 = ?$   
(a) 5 (b) 11  
(c) 6 (d) 9  
(e) 10
28.  $276.75 + 4\% \text{ of } 678 + \sqrt{0.0169} = ?$   
(a) 304 (b) 124  
(c) 122 (d) 228  
(e) None of these
29.  $6(7/11) \times 5(4/9) \div 9(1/4) = ?$   
(a) 21 (b) 13  
(c) 9 (d) 4  
(e) None of these
30.  $56\% \text{ of } 4356 = 76\% \text{ of } 564 + ?$   
(a) 1789 (b) 2100  
(c) 2500 (d) 2011  
(e) None of these
31. A five digit number is formed with the digits 0,1,2,3 and 4 without repetition. Find the chance that the number is divisible by 5.  
(a)  $3/5$  (b)  $1/5$   
(c)  $2/5$  (d)  $4/5$   
(e) None of these
32. A box contains 5 green, 4 yellow and 3 white marbles. Three marbles are drawn at random. What is the probability that they are not of the same colour ?  
(a)  $40/44$  (b)  $44/41$   
(c)  $41/44$  (d)  $40/39$   
(e)  $44/39$
33. Out of 6 green ball, 4 blue ball, in how many ways we select one or more balls ?  
(a) 42 (b) 34  
(c) 31 (d) 22  
(e) None of these
34. From a pack of 52 cards, 3 cards are drawn together at random, What is the probability of both the cards are king?  
(a)  $\frac{1}{5225}$  (b)  $\frac{1}{5525}$   
(c) 5525 (d)  $\frac{1}{525}$   
(e) None of these
35. 16 persons are participated in a party. In how many different ways can they host the seat in a circular table, if the 2 particular persons are to be seated on either side of the host?  
(a)  $16! \times 2$  (b)  $14! \times 2$   
(c)  $18! \times 2$  (d)  $14!$   
(e)  $14! \times 3$



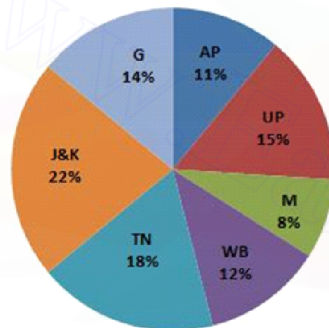
**DIRECTIONS (Qs. 36-40) :** Study the following graph to answer the given questions

### Statewise Distribution of Male



Total population 39 lak

### Statewise distribution of Female

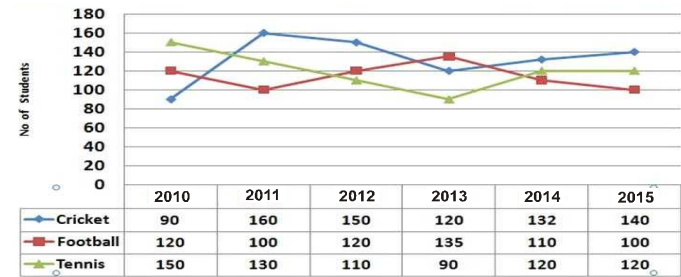


Total population 32 lak

36. What is the ratio between the Female population of state UP and the male population of M?
- (a) 60 : 95 (b) 80 : 117  
(c) 85 : 112 (d) 45 : 77  
(e) None of these
37. What is the total population of State J & K ?
- (a) 11.55 lak (b) 10.65 lak  
(c) 10.55 lak (d) 9.78 lak  
(e) None of these
38. Find the difference between Male population and Female population in the state WB ?
- (a) 5.76 lak (b) 4.67 lak  
(c) 3.69 lak (d) 3.96 lak  
(e) None of these
39. Find the average number of males in all the 7 states ?
- (a) 5 lak (b) 6 lak  
(c) 5.57 lak (d) 6.57 lak  
(e) None of these
40. The angle corresponding to the female population in the states AP and M ?
- (a) 56.9 degree (b) 76.5 degree  
(c) 48.6 degree (d) 68.4 degree  
(e) None of these

**DIRECTIONS (Qs. 41-45) :** Study the following graph carefully to answer the given Questions

No of students(in hundred) who participated in three different sports in six different years



41. What is the difference between the no of players participating in Football in the year 2012 and the no of players participating in Cricket in the year 2015 ?
- (a) 1000 (b) 2000  
(c) 2200 (d) 1700  
(e) 1800
42. The total no of players who participated in all the 3 sports together in the year 2014 was What % of the total no of players who participated in Tennis over all the years together (approx) ?
- (a) 50% (b) 45%  
(c) 47% (d) 53%  
(e) 52%
43. What was the average no of players who participated in Football over all the years together ?
- (a) 11417 (b) 11490  
(c) 12476 (d) 10976  
(e) 10990
44. What was the % decrease in the no of players participating in Cricket in the year 2003 as compared to that in the year 2001 ?
- (a) 45% (b) 35%  
(c) 25% (d) None of these  
(e) 47%
45. Find the ratio between the no of students participated in Cricket & Football in 2001 to the total no of students participated in Cricket and Tennis in 2004 ?
- (a) 20 : 17 (b) 65 : 63  
(c) 60 : 43 (d) 55 : 52  
(e) 52 : 55

**DIRECTIONS (Qs. 46-50) :** Study the following information to answer the given questions

Dept	STAFF		STUDENTS	
	Number	M:F	Number	M:F
ECE	120	13:11	1800	7:11
EEE	80	9:7	1500	7:8
CSE	150	17:13	2200	9:13
IT	90	4:5	600	7:5
ME	140	4:3	1600	17:15
EIE	70	18:17	1200	9:11

M = male F=female

46. What is the ratio of total number of staff in ECE,EEE to the total no of students in CSE and IT ?  
 (a) 14:1 (b) 1:14  
 (c) 1:12 (d) 1:17  
 (e) None of these
47. The total no of male staff in IT and EIE is what % of the total number of staff in these 2 dept ?  
 (a) 44.5% (b) 45.7%  
 (c) 47.5% (d) 45.00%  
 (e) None of these
48. Total no of female students in CSE is what % more than the male students in the same Dept ?  
 (a) 44.45% (b) 40.76%  
 (c) 40.75% (d) 40.66%  
 (e) None of these
49. Find the number of female students in ME dept ?  
 (a) 850 (b) 650  
 (c) 150 (d) 750  
 (e) None of these
50. Find the average of total no of staff in all the dept ?  
 (a) 103.8 (b) 108.3  
 (c) 108.2 (d) 108  
 (e) None of these
54. **Statements :** No photo is frame. All frames are sites. Some buckets are photos. Some sites are buckets.  
**Conclusions:**  
 I. No photo is site.  
 II. All buckets being frames is a possibility  
 III. Some sites are photos  
 IV. Some buckets are frames.  
 (a) All follows  
 (b) Only II and III follow  
 (c) Only II, III and IV follow.  
 (d) Only either I or III follows
55. **Statements:** All seats are covers. No cover is bun. Some buns are roofs. Some sites are covers.  
**Conclusions:**  
 I. All sites being buns is a possibility  
 II. All sites being roof is a possibility  
 III. Some sites are not buns.  
 IV. No seat is bun  
 (a) Only II, III and either I or IV follow.  
 (b) Only III follows  
 (c) All follows.  
 (d) Only II, III and IV follow

## Reasoning Ability

**DIRECTIONS (Qs. 51-55) :** Read the following information carefully and answer the questions that follow.

51. **Statements:** Some trees are plants. All trees are houses. No plant is pot. All tools are pots.  
**Conclusions:**  
 I. Some plants are tools is a possibility.  
 II. All trees are tools is a possibility.  
 III. No plant is house.  
 IV. All plants are houses is a possibility.  
 (a) Only I and III follow.  
 (b) Either III or IV follows  
 (c) Only IV follows  
 (d) None follows.
52. **Statements:** All trees are plants. All houses are trees. Some pots are plants. All tools are plants.  
**Conclusions:**  
 I. Some plants are not houses  
 II. Some tools being trees is a possibility  
 III. All pots are tools is a possibility.  
 IV. All houses are tools is a possibility.  
 (a) Only III and IV follow  
 (b) Only II, III, and IV follow  
 (c) Only I and IV follow.  
 (d) All follow.
53. **Statements:** Some roofs are figures. All figures are lions. All lions are goats. No tool is lion.  
**Conclusions:**  
 I. Some tools are figures is a possibility.  
 II. All tools being goats is a possibility.  
 III. No roof is tool.  
 IV. Some goats are figures  
 (a) Only II and IV follow  
 (b) Only I and II follow  
 (c) Only either I or II and IV follow  
 (d) None follows.
56. The code for the word 'Table'  
 (a) 26×A (b) 17%O  
 (c) 14\$A (d) 22\$E  
 (e) None of these
57. The code word 6\$A for the word  
 (a) Later (b) Arrive  
 (c) Earlier (d) Today  
 (e) Either 1 or 3
58. Find the code word for the word 'Burn' ?  
 (a) 25\$R (b) 22%U  
 (c) 21\$R (d) 6×E  
 (e) Can't be determined
59. According to the given code, what is the code for 'M' ?  
 (a) 12 (b) 8  
 (c) 10 (d) 7  
 (e) Can't be determined
60. By using the given code word, find the code word for 'Better Luck Next Arrive' ?  
 (a) 22\$E, 21\$R, 6×U, 8%E (b) 8×E, 21×R, 22%E, 6%U  
 (c) 22×E, 6%U, 8%E, 21×R (d) 21%R, 22\$E, 6×U, 8%E  
 (e) 6\$U, 22×E, 8×E, 21%R
61. Two Person P and Q are separated by a distance of 20 meter in west-east direction respectively. Now P and Q start walking in north and south direction respectively and walked for 5 meter. Now P and Q took a right turn and walked 10m each. Now P and Q took left turn and after walking 5 meter both of them stopped. Find the distance between them  
 (a) 15 (b) 25  
 (c) 30 (d) 35  
 (e) None of these

**DIRECTIONS (Qs. 56-60) :** Study the information below and answer the following question:-

In a certain code language,

'Arrive today eagles later' is written as 21×R, 6\$A, 14\$O, 25×A

'Begin work faster table' is written as 14\$A, 17%O, 26×A, 22\$E

'Length error arrow burn' is written as 6×E, 25\$R, 22%U, 21\$R

'Trial better than wisdom' is written as 14\$R, 14%H, 22×E, 17×I

**DIRECTIONS (Qs. 62-66) :** Study the following information carefully to answer the given questions.

Eight friends A, B, C, D, E, F, G and H are sitting around a circular table but not necessarily in the same order. Some of them are facing outward. They are working in four different companies Apple, IBM, Google and Intel. Two persons are working at each company.

G sits on the immediate right of B, who works at the Google. C sits third to the left of H, who works at the Apple and both are facing the same direction. C and B are not facing the same direction but C is an immediate neighbor of E, who is fourth to the left of G. E and G both are facing opposite directions but both work at the same company. Those who work at the Google sit adjacent to each other but face opposite direction. Those who work at the IBM sit opposite each other. The immediate neighbours of E are not facing outward. A person who works at the Apple is an immediate neighbor of the persons who work at the Intel. D and F are immediate neighbours of H. D is not facing the centre and works at the Intel. The one who is on the immediate left of F is not facing the centre. F sits second to the right of C.

62. Who among the following works at the Apple ?  
 (a) D and F (b) H and F  
 (c) G and C (d) C and H  
 (e) None of these
63. Who among the following sits on the immediate right of the person who works at the IBM?  
 (a) B (b) D  
 (c) A (d) F  
 (e) None of these
64. How many persons are facing outward?  
 (a) Two (b) Three  
 (c) Four (d) Can't be determined  
 (e) None of these
65. A works at which of the following?  
 (a) Either Google or Apple (b) Either Intel or IBM  
 (c) Google (d) Intel  
 (e) Can't be determined
66. If D and F interchange their places then who among the following is on the immediate left of G?  
 (a) B (b) D  
 (c) H (d) F  
 (e) None of these

**DIRECTIONS (Qs. 67-71) :** In the following Questions, \$, ×, %, @ and © are used with the following meaning as illustrated below

A × B means A is not greater than B

A @ B means A is neither greater than nor equal to B

A © B means A is not smaller than B

A % B means A is neither smaller than nor greater than B

A \$ B means A is neither smaller than nor equal to B

67. **Statement :** X × W, W @ Z, Z % Y

**Conclusion:**

I. Y \$ W II. Z \$ W III. X © Y

- (a) Only I is true (b) Only II is true  
 (c) Both I and II are true (d) Both I and III are true  
 (e) None is true

68. **Statement :** D \$ E, E © C, C @ A

**Conclusion :**

I. C × D

II. A \$ E

III. A \$ D

- (a) Only I is true (b) Only II is true  
 (c) Both I and II are true (d) Both I and III are true  
 (e) None is true

69. **Statement :** M @ O, O % P, P © N

**Conclusion:**

I. P © M

II. N @ O

III. N % O

- (a) Only I is true (b) Only II is true  
 (c) Both II and III are true (d) Either II or III is true  
 (e) None is true

70. **Statement :** A © C, C \$ B, B % E

**Conclusion :**

I. E @ C

II. B @ A

III. A © E

- (a) Only I is true (b) Only II is true  
 (c) Both I and II are true (d) Both I and III are true  
 (e) None is true

71. **Statement :** P © S, S \$ R, R × Q

**Conclusion :**

I. Q \$ S

II. R @ P

III. R % P

- (a) Only I is true (b) Only II is true  
 (c) Both I and II are true (d) Either II or III is true  
 (e) All I, II and III are true

**DIRECTION (Qs. 72-75) :** In a family there are 6 members P, Q, R, X, Y and Z. R is the sister of Z. X is the father of P and grandfather of Z. Q is the brother of Y's husband. There are three brothers, one mother and two fathers.

72. Who is the mother of R?

- (a) Q (b) Z  
 (c) Y (d) X  
 (e) None of these

73. Who is Y's husband ?

- (a) Q (b) P  
 (c) X (d) Can't be determined  
 (e) None of these

74. How many females are there in the family?

- (a) One (b) two  
 (c) three (d) four  
 (e) None of these

75. Which of the following is the group of brothers ?

- (a) PQZ (b) PRZ  
 (c) XZP (d) QRZ  
 (e) None of these

**DIRECTIONS (Qs. 76-80):** Each question is followed by two courses of actions. You have to decide which of the course of action follows for the statement implied. Give answer.

- (a) If only course of action I follows  
 (b) If only course of action II follows  
 (c) If either course of action I or II follows.  
 (d) If neither course of action I nor II follows.  
 (e) If both course of action I and II follow.



76. Next day, millions of pilgrims are expected to take dip the Ganga at the holy place.
- The state government should put a restriction on the number of people that can come to take dip each day.
  - During the next whole day, the state government should deploy personnel to maintain law and order.
77. During the workers laying cables underground in ABC locality, a main pipe supplying water to the houses burst and the locality was flooded.
- The concerned authority should immediately take an action and start repairing the damage.
  - The concerned authority should take an action against the company whose workers were laying the cables and ask them for the compensation.
78. Some college students were found guilty of travelling in a local train without tickets.
- The parents of these students should be contacted and asked to counsel their wards.
  - The students found guilty in such cases should be held behind bars.
79. Though private ferry systems have made going to holy places easy, today many pilgrims died in a stampede while boarding a private ferry.
- The state government should cancel the licenses of all such private ferry operators.
  - The state government should deploy some people to guide the pilgrims on their journey to the holy place.
80. Many of the people invited for a marriage at ABC Hotel fell ill due to food poisoning and were admitted to the hospitals.
- The government should keep on hold marriages till further notice.
  - The hospitals should be advised to give good services to the effected people.

**DIRECTIONS (Qs. 81-85) :** Study the following information carefully to answer the given questions.

Ten famous sports personalities are sitting in twelve seats in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent persons. In Row - 1: Sardana Singh, M.S.Dhoni, P.V.Sindhu, Sania Mirza, and Sakshi Malik are seated and all of them are facing south, and in Row 2 : Mary Kom, Sathish, Dipa Karmakar, Sandeep and Abhinav Bindra are sitting and all of them are facing north. One seat is vacant in each row. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row. All of them like different sports like i.e. Hockey, Cricket, Badminton, Tennis, Wrestling, Boxing, Weight lifting, Gymnastics, Swimming and Shooting.

- Sandeep sits third to the right of Dipa Karmakar and likes Tennis. Only two people sit between Sathish and Vacant seat. Sathish sits at one of the extreme ends. Dipa Karmakar does not like Hockey and Gymnastics.
- Sathish does not like Wrestling and Badminton. Sakshi Malik is not an immediate neighbour of P.V.Sindhu. M.S.Dhoni likes Shooting. The one who likes Badminton faces the one who likes Gymnastics. Vacant seat of row-1 does not face Sandeep also does not sit at any of the extreme ends.

- The one who likes Badminton sits opposite to the one, who sits third right of the one, who sits opposite to Sandeep . P.V.Sindhu is not an immediate neighbour of Sania Mirza. Abhinav Bindra, who likes neither Wrestling nor Boxing, does not face vacant seat.
  - Neither Sandeep nor Dipa Karmakar sits at an extreme ends. Sania Mirza faces Dipa Karmakar. Vacant seats are not opposite to each other. Two seats are there between P.V.Sindhu and M.S.Dhoni, who sits third right of the one, who likes Weight lifting.
  - The one who likes Swimming faces the one, who likes Tennis. The person who likes Hockey and Gymnastics are adjacent to each other. Vacant seat of row-1 is not an immediate neighbour of Sania Mirza.
81. Who among the following sits second to the right of the person who faces the vacant seat ?
- One who likes Cricket
  - One who likes Boxing
  - Sardana Singh
  - P.V.Sindhu
  - One who likes Weight lifting
82. Which of the following is true regarding Sardana Singh ?
- MSD and P.V. Sindhu are immediate neighbours of Sardana Singh
  - Only two people sit between Sardana Singh and P.V. Sindhu
  - Sardana Singh is an immediate neighbour of the person who faces Dipa Karmakar
  - Sardana Singh sits second to left of MSD
  - None of the given options is true
83. Which of the following groups of people represents the people sitting at extreme ends of both the rows ?
- MSD, P.V.Sindhu, Sardana Singh, Dipa Karmakar
  - Sakshi Malik, Abhinav Bindra, Sathish, P.V.Sindhu
  - Sakshi Malik, P.V. Sindhu, Sardana Singh, Dipa Karmakar
  - MSD, P.V.Sindhu, Sardana Singh, Abhinav Bindra
  - Sathish, P.V.Sindhu, Sardana Singh, Dipa Karmakar
84. Who amongst the following faces vacant seat of first row?
- MSD
  - P.V.Sindhu
  - Mary Kom
  - Sardana Singh
  - Dipa Karmakar
85. Which of the following is true with respect to the given information ?
- Mary Kom sits exactly between Abhinav Bindra and Dipa Karmakar
  - Sania Mirza faces immediate neighbour of Abhinav Bindra
  - Sathish is an immediate neighbour of Mary Kom
  - P.V.Sindhu faces Vacant seat
  - None of the given options is true

**DIRECTIONS (Qs. 86-90) :** Study the following information carefully to answer the given questions

Ten students namely viz A, B, C, D, E, F, G, H, I and J of ten different colleges but not necessarily in the same order have seminar on five different days starting from Monday to Friday of the same week. Each student have seminar at two different time slots, i.e 10.00 AM and 3 P.M



I has a seminar on Tuesday at 10.00 A.M. The number of people who have seminar between G and D is same as the number of people who have seminar between C and H. B has a seminar immediately before I. I does not have seminar on any of the days before G. The one who has seminar at 10.00 A.M immediately before J. H does not has seminar at 3 P.M D has a seminar immediately after the day of one who has seminar on Monday. F does not have seminar at 3 P.M. D does not has seminar on any one of the days after E. Only three people have seminar between G and E. Neither E nor G does not have seminar on Friday. Only two people have seminar between F and J. F does not have seminar on any of the days after H.

86. How many persons have seminar at 3'0 clock between G and C?
- (a) 5 (b) 6  
(c) 2 (d) 4  
(e) None of these.
87. Who among the following person has seminar at 3 P.M?
- (a) C (b) G  
(c) I (d) F  
(e) E
88. Four among the following form a group in a certain way. Which of the following does not belong to Group?
- (a) G - Tuesday (b) I - Wednesday  
(c) F - Friday (d) G - Wednesday  
(e) E - Thursday
89. Which of the following is correctly matched?
- (a) D - Monday (b) C - Tuesday  
(c) A - Friday (d) G - Tuesday  
(e) E - Wednesday
90. Who among the following have seminar on Friday?
- (a) I, E (b) H, J  
(c) B, A (d) D, E  
(e) E, C

**DIRECTIONS (Qs. 91-95) :** Study the following information carefully to answer the given questions

Eight People - A, B, C, D, E, F, G and H live in eight different floors of building (but not necessarily in the same order). The lowermost floor of the building is numbered one, the one above that is numbered two, and so on till the topmost floor is numbered eight. Each one of them also owns a different brands of laptops, namely Acer, Lenovo, Dell, HP, Samsung, Apple, Asus and TOSHIBA (but not necessarily in the same order).

F lives an odd numbered floor above the floor numbered four. Only one person lives between B and the one who owns Samsung. Only three people live between D and the one who owns Apple. The one who owns Asus lives immediately above G. G owns neither Apple nor Acer. E does not own Asus. Only three people live between G and A. The one who owns TOSHIBA lives immediately above the one who owns Lenovo, but not on the topmost floor. C lives an one of the odd numbered floors above the one who owns Apple. Only one person lives between F and the one who owns DELL. Only one person lives between the one

who owns TOSHIBA and H. Only two people live between C and the one who owns Acer. The number of people leaving above F is same as the number of people living between F and D

91. Which of the following Statements is true with respect to the given information?
- (a) G lives immediately above the one who owns Apple  
(b) E lives immediately above C  
(c) Only three people live between F and the one who owns TOSHIBA.  
(d) D owns Samsung.  
(e) All the given statements are true.
92. Who amongst the following lives exactly between H and the one who owns Lenovo Laptop?
- (a) B, C (b) G, D  
(c) F, G (d) A, B  
(e) E, A
93. Which of the following laptops does E own?
- (a) TOSHIBA (b) Lenovo  
(c) DELL (d) Samsung  
(e) Asus
94. Four of the following five are alike in a certain way and so form a group. Which one of the following does not belong to the group?
- (a) G - HP (b) C - Apple  
(c) F - Samsung (d) H - TOSHIBA  
(e) D - DELL
95. How many people live between C and the one who owns DELL?
- (a) Four (b) Three  
(c) Two (d) Five  
(e) None

**DIRECTIONS (Qs. 96-100) :** In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer

- (a) If only assumption I is implicit  
(b) If only assumption II is implicit  
(c) If either I or II is implicit  
(d) If neither I nor II is implicit  
(e) If both I and II are implicit.
96. **Statement:** "You are hereby appointed as a programmer with a probation period of one year and your performance will be reviewed at the end of the period for confirmation."  
- A line in an appointment letter.
- Assumptions:**
- I. The performance of an individual generally is not known at the time of appointment offer.  
II. Generally an individual tries to prove his worth in the probation period.
97. **Statement:** It is desirable to put the child in school at the age of 5 or so.
- Assumptions:**
- I. At that age the child reaches appropriate level of development and is ready to learn.  
II. The schools do not admit children after six years of age.

98. **Statement:** "In order to bring punctuality in our office, we must provide conveyance allowance to our employees." - In charge of a company tells Personnel Manager.

**Assumptions:**

- I. Conveyance allowance will not help in bringing punctuality.
- II. Discipline and reward should always go hand in hand.

99. **Statement:** Unemployment allowance should be given to all unemployed Indian youth above 18 years of age.

**Assumptions:**

- I. There are unemployed youth in India who needs monetary support.
- II. The government has sufficient funds to provide allowance to all unemployed youth.

100. **Statement:** "If you trouble me, I will slap you." - A mother warns her child.

**Assumptions:**

- I. With the warning, the child may stop troubling her.
- II. All children are basically naughty.

## English Language

**DIRECTIONS (Qs. 101-105) :** Read the following passage carefully and answer the questions given below it.

The finance ministry on Monday said the Union budget would be growth-oriented, implicitly signaling that it will address the investment crisis in the Indian economy. "Given the fiscal constraints and other parameters under which the government has to function, the effort of the government is to present a budget which is growth-oriented, that maintains the momentum of growth and tries to develop on it," economic affairs secretary Shaktikanta Das said in an interview with DD News uploaded on YouTube on Monday.

According to Das, the budget will also detail new measures to support ongoing programmes such as Start-up India, Standup India, Make In India, Digital India and the Skill mission – all of which have a strong focus on creating jobs. Finance minister Arun Jaitley will be presenting his third budget on 29 February at a time when private investment has dried up and the exchequer has had to incur higher expenditure due to implementation of the One Rank One Pension scheme for the armed forces and the recommendations of the Seventh Pay Commission. That may cramp the government's ability to accelerate public investment to revive economic growth while sticking within the confines of its fiscal deficit targets. Some parts of the government believe that the emphasis should be on growth and not fiscal consolidation. Other parts, and the Reserve Bank of India, believe the finance minister should adhere to his fiscal commitments made in the last budget.

Without revealing whether the government will digress from the path of fiscal consolidation, Das said the government's priority is to take a balanced view on "the expenditure requirement to keep our growth momentum and to what extent we can borrow". Care Ratings chief economist Madan Sabnavis said the government has to increase its allocation for public investment

on infrastructure to stimulate growth. "I expect government to spend ₹ 10,000-20,000 crore additional amount on infrastructure. Given nominal GDP (gross domestic product) is not expected to expand significantly, the leeway for the government to spend more may not be there while keeping fiscal deficit within 3.7-3.9% of GDP. So I don't expect a big-bang push for infrastructure spending given the fiscal constraint," he said.

The finance ministry revealed more contours of its budget when minister of state for finance Jayant Sinha, also in an interview to DD News, said the four pillars of the budget will be poverty eradication, farmers' prosperity, job creation and a better quality of life for all Indian citizens. "This budget will be a forward looking budget that will ensure that India will continue to be a haven of stability and growth in a very turbulent and choppy global economic environment," he added.

The government has been contemplating tax incentives to companies in the manufacturing sector, including tax deductions on emoluments paid to new employees, to encourage firms to step up hiring and create jobs under its Make in India initiative. The government published suggestions that it has received internally from various government departments and other stakeholders on the mygov.in website, seeking further ideas and comments from the public. Suggestions being considered by the government include financial incentives, tax incentives under the Income Tax Act, 1961, and subsidies for equipping employees with job skills, and upgrading and improving employment exchanges. Another suggestion is to expand the scope of the tax deduction currently available to companies that add at least 10% to their workforce in a year by lowering the threshold. This incentive is available only in cases of employees who earn less than ₹ 6 lakh a year.

101. What is the main objective of the government to create the Union Budget?
- (a) It should meet the requirements of the society.
  - (b) It should be under some fiscal constraints.
  - (c) It should be growth oriented.
  - (d) It should meet the requirements of a developed country.
  - (e) It should change the momentum of growth.
102. Where is it expected to invest by government to stimulate growth?
- (a) On infrastructure
  - (b) On governments plans.
  - (c) On fiscal management
  - (d) On manufacturing sector
  - (e) On social development.
103. What does this mean that India will continue to be a "haven of stability"?
- (a) That new budget will make India stable forever.
  - (b) The four pillars of budget will lead to make stability.
  - (c) India will continue towards stability even in disturbed economic environment.
  - (d) The budget will remain unchanged even in turbulent and choppy economic environment.
  - (e) None of the above

104. Why is the government providing tax incentive to companies in manufacturing sector?
- For better infrastructure.
  - For tax deductions on emoluments paid to new employees,
  - To create new job opportunities and to initiate project 'Make in India'
  - to create new job opportunities and to initiate project Standup India.
  - to encourage firms to step up hiring new skilled employees
105. Which one of the following is NOT the suggestion considered by the government?
- To expand the scope of tax deduction to companies that add at least 10% to their workforce in a year.
  - To upgrade and improve employment exchange.
  - To provide incentive to employees who earn less than Rs.6 lakh a year.
  - Subsidies to train employees with job skills.
  - Tax penalty for high income people.

**DIRECTIONS (Qs. 106-110) :** Read the following passage carefully and answer the questions given below it.

The alarm bells should start ringing any time now. An important component of the economy has been sinking and needs to be rescued urgently. This critical piece is 'savings' and, within this overall head, household savings is the one critical subcomponent that needs close watching and nurturing.

While it is true that one of the primary reasons behind the current economic slowdown is the tardy rate of capital expansion - or, investment in infrastructure as well as plant and machinery - all attempts to stimulate investment activity are likely to come to naught if savings do not grow. Without any growth in the savings rate, it is futile to think of any spurt in investment and, consequently, in the overall economic growth. If we source all the investment funding from overseas, it might be plausible to contemplate investment growth without any corresponding rise in savings rate. But that is unlikely to happen.

Within the overall savings universe, the subcomponent 'household savings' is most critical. It provides the bulk of savings in the economy, with private corporate savings and government saving contributing the balance. The worrying factor is the near-stagnation in household savings over the last eight years or so. What's even more disconcerting is the fact that household savings remained almost flat during the go-go years of 2004-08.

This seems to be counter-factual. There are many studies that show that there is a direct relationship between overall economic growth and household savings. So, at a time when India's GDP was growing by over 9% every year, the household savings rate stayed almost constant at close to 23% of GDP. There was, of course, an increase in absolute terms, but it remained somewhat fixed as a proportion of GDP.

What is responsible for this contradictory movement? The sub-group on household savings, formed by the working group on savings for the 12th Plan set up by the Planning Commission and chaired by RBI deputy governor Subir Gokarn, has this to say, "...a recent study had attributed the decline in the household saving ratio in the UK during 1995-2007 to a host of factors such as declining real interest rates, looser credit conditions, increase in asset prices and greater macroeconomic stability.

While recognising that one of the key differences in the evolving household saving scenario between the UK and India is the impact of demographics (dependency ratio), anecdotal evidence on increasing consumerism and the entrenchment of (urban) lifestyles in India, apart from the easier availability of credit and improvement in overall macroeconomic conditions, is perhaps indicative of some 'drag' on household saving over the last few years as well as going forward." India has another facet: a penchant for physical assets (such as bullion or land). After the monsoon failure of 2009, and the attendant rise in price levels that has now become somewhat deeply entrenched, Indians have been stocking up on gold. Consequently, savings in financial instruments dropped while those in physical assets shot up. This is also disquieting for policy planners because savings in physical assets stay locked in and are unavailable to the economy for investment activity. There is a counter view that higher economic growth does not necessarily lead to higher savings. According to a paper published by Ramesh Jangili (Reserve Bank of India Occasional Papers, Summer 2011), while economic growth doesn't inevitably lead to higher savings, the reciprocal causality does hold true. "It is empirically evident that the direction of causality is from saving and investment to economic growth collectively as well as individually and there is no causality from economic growth to saving and (or) investment."

Whichever camp you belong to, it is beyond doubt that savings growth is a necessary precondition for promoting economic growth. The Planning Commission estimates that an investment of \$1 trillion, or over 50 lakh crore, will be required for the infrastructure sector alone. And, a large part of this critical investment will have to be made from domestic savings.

106. What is the main concern of the author behind saying that 'the alarm bells should start ringing anytime now'?
- The current economic growth is slowing down due to regular failure of monsoon.
  - Due to power shortage industrial growth could not touch the target.
  - Household savings are sinking and they require to be revamped.
  - Due to a sharp decline in real interest rates people have lost their enthusiasm to invest in govt schemes.
  - All the above
107. What is/are the primary reasons behind the current economic slowdown?
- Slow rate of capital expansion
  - Tardy investment in infrastructure as well as plant and machinery
  - A rapid increase in the cases of corruption, and decreased FDI
- Only (A)
  - Both (A) and (B)
  - Either (A) or (C)
  - Both (B) and (C)
  - All (A), (B) and (C)
108. How is household savings related to overall economic growth? Give your answer in the context of the passage?
- Overall economic growth is directly related to household savings.
  - Overall economic growth is inversely proportional to household savings.
  - There is no specific relationship between overall economic growth and household savings.



- (a) Only (C) (b) Only (B)  
 (c) Only (A) (d) Either (A) or (B)  
 (e) Either (A) or (C)
109. What was/were the reason(s) of drop in savings in financial instruments after 2009?  
 (a) Rise in price level of gold  
 (b) Decrease in real interest rates on savings in financial instruments  
 (c) Investment in physical assets, particularly land  
 (d) Only (a) and (c)  
 (e) Only (b) and (c)
110. Which of the following is/are the reasons of a drag on household savings in India over the last few years?  
 (a) Increasing consumerism  
 (b) Entrenchment of urban lifestyle  
 (c) Easier availability of credit  
 (d) Improvement in overall macroeconomic conditions  
 (e) All the above

**DIRECTIONS (Qs. 111-115) :** In each of the following questions five options are given, of which one word is most nearly the same or opposite in meaning to the given word in the question. Find the correct option having either same or opposite meaning.

111. PRODIGY  
 (a) Pauper (b) Despondent  
 (c) Demure (d) Wanton  
 (e) Epitome
112. NONDESCRIPT  
 (a) Conducive (b) Discern  
 (c) Tantamount (d) Defined  
 (e) Emancipate
113. SAVANT  
 (a) Glutton (b) Postulant  
 (c) Shrink (d) Pluck  
 (e) Itinerant
114. CORPULENT  
 (a) Lean (b) Gaunt  
 (c) Emaciated (d) Obese  
 (e) Nobble
115. EMBEZZLE  
 (a) Misappropriate (b) Balance  
 (c) Remunerate (d) Clear  
 (e) Perfection

**DIRECTIONS (Qs. 116-120) :** Which of the pair of phrases (a), (b), (c) and (d) given below should replace the phrase given in bold in the following sentence to make the sentence grammatically meaningful and correct? If the sentence is correct as it is and no correction is required, mark (e) as the answer.

116. According to author Dishantgautam, a novel is **difficult** to write when compared to a play is like **going for** an election where one has to appeal to a thousand people at a time whereas in a book one appeals to one only person.  
 (a) simpler, running in  
 (b) faster, voting through  
 (c) easier, running for  
 (d) fool proof, voting on  
 (e) No correction required
117. We have in America a **collection** speech that is neither American, Oxford English, nor colloquial English, but a **mixture** of all three.

- (a) motley, an enhancement  
 (b) hybrid, a combination  
 (c) nasal, a blend  
 (d) mangled, a medley.  
 (e) No correction required
118. Alice Walker's The Temple of My Familiar, far from being a tight, **focused** Narrative, is instead a **cheaper** novel that roams freely and imaginatively over a halfmillion  
 (a) traditional, a chronological  
 (b) provocative, an insensitive  
 (c) forceful, a concise  
 (d) focused, an expansive  
 (e) circuitous, a discursive
119. Jayashree was habitually so docile and **erratic** that her friends could not understand her sudden **hostile** her employers.  
 (a) accommodating, outburst against  
 (b) erratic, envy of  
 (c) truculent, virulence toward  
 (d) hasty, annoyance toward  
 (e) apologetic, hostile
120. The village headman was unlettered, but he was no fool, he could see through the **mystery** of the businessman's proposition and promptly **moved** him down.  
 (a) deception, forced (b) naivete, turned  
 (c) potential, forced (d) sophistry, turned  
 (e) No correction required

**DIRECTIONS (Qs. 121-125) :** In each of the following questions a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent (coherent means logically complete and sound).

121. The Time Traveler (for so it will be convenient to speak of him) was expounding a recondite matter to us. His grey eyes shone and twinkled, and his usually pale face was flushed and animated. The fire burned brightly, and the soft radiance of the incandescent lights in the lilies of silver caught the bubbles that flashed and passed in our glasses. Our chairs, being his patents, embraced and caressed us rather than submitted to be sat upon, and there was that luxurious after-dinner atmosphere when thought roams gracefully free of the trammels of precision. (\_\_\_\_).  
 (a) And slowly and steadily, the atmosphere grew stale and lost all the vibrancy it had  
 (b) And he put it to us in this way—marking the points with a lean forefinger—as we sat and lazily admired his earnestness over this new paradox (as we thought it) and his fecundity  
 (c) We sat like toddlers do in a nursery, eagerly anticipating the show the Time Traveler would put on for us  
 (d) We sat benumbed by the proceedings, for the radiance of the Time Traveler was unimaginable and unbearable  
 (e) I caught Filby's eye over the shoulder of the Medical Man, and he winked at me solemnly.
122. Let us understand the definition of metaphysics, a purely speculative science, which occupies a completely isolated



position and is entirely independent of the teachings of experience. It deals with mere conceptions—not, like mathematics, with conceptions applied to intuition—and in it, reason is the pupil of itself alone. It is the oldest of the sciences. ( )

- (a) And it would struggle to survive without the architecture of mathematical support that it draws its strength from
- (b) Yet it continued to baffle mankind because of its abstractions
- (c) But it has never had and never will have the good fortune to attain to the sure scientific method
- (d) And it would still survive, even if all the rest were swallowed up in the abyss of an all-destroying barbarism
- (e) This critical science is not opposed to the dogmatic procedure of reason in pure cognition; for pure cognition must always be dogmatic
123. However, it is possible that the non-resident entity may have a business connection with the resident Indian entity. In such a case, the resident Indian entity could be treated as Permanent Establishment of the nonresident entity. .... During the last decade or so, India has seen a steady growth of outsourcing of business processes by non residents or foreign companies to IT-enabled entities in India. Such entities are either branches or associated enterprises of the foreign enterprise or an independent India enterprise. The nonresident entity or foreign company will be liable to tax in India only if the IT-enabled BPO unit in India constitutes its Permanent Establishment.
- (a) The tax treatment of the Permanent Establishment in such a case is under consideration
- (b) How would the profit would be shared is not decided yet?
- (c) A lengthy and cumbersome process requiring a lot of application of mind and revenue principles is ahead for the tax department of India
- (d) A new trend is seen in last decade.
- (e) Indian companies have a lot on stake as competition increases.
124. Aggregation of risks is somewhat quite new to banks in India. While some banks have started thinking in that line by trying to put integrated limits framework and integrated risk policies as well as using CBS solutions for technological integration, the effort required is beyond such requirement. Risk aggregation would mean aggregating the individual risk measures to decide most appropriate assets class that would contain the risk to the desired level dictated by the risk appetite. Capital allocation (about how much) would be based on such strategies. ....
- (a) Most banks are yet to conceptualize the same in their processes
- (b) Most banks have already integrated it in their functioning; it is working over the years satisfactorily.
- (c) Which would in long run prove to be the growth impeding
- (d) Of risk aggregation which is really a new concept to Indian banks
- (e) On expected lines of the regulation conditions laid down in the manual of the bank
125. After two years, high inflation moderated in the later part of 2011-12 in response to past monetary tightening and growth deceleration. High inflation had adverse consequences on welfare and on saving and investment, particularly household saving in financial assets. The most serious consequence of inflation is .... As growth slowed down, in part due to high inflation, it further reduced the welfare of the common man through adverse impact on employment and incomes.
- (a) its destructive allocation impact on the industries that were lately coming up.
- (b) its negative impact on the rich and high-profile people.
- (c) its adverse distributional impact on the poor, people without social security and pensioners.
- (d) its wayward consequences on the public distribution system meant for the poor.
- (e) its unfavourable bearing on day to day commodities that are used by the common man.
- 
- DIRECTIONS (Qs. 126-130) :** Select the phrase/connector from the given three options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.
126. RBI is concerned about the risk of investing in mutual funds. RBI is likely to ask banks to reduce their investments in mutual funds.
- (A) At the risk of investing
- (B) To reduce investments
- (C) Concern for the risk
- (a) Only (A) (b) Only (B)
- (c) Only (C) (d) Only (A) and (B)
- (e) None of these
127. Twelve million youth enter the Indian work force every year. Eighty per cent of these youth are unskilled.
- (A) While eighty per cent
- (B) Since twelve million
- (C) Of the twelve million
- (a) Only (A) (b) Only (C)
- (c) Only (A) and (C) (d) All (A), (B) and (C)
- (e) None of these
128. Food inflation is touching twenty per cent. The government will have to tighten monetary policy to prevent further rise.
- (A) Although food inflation is
- (B) With the tightening of monetary
- (C) Given that food inflation
- (a) Only (A) (b) Only (B)
- (c) Only (C) (d) Only (A) and (B)
- (e) None of these
129. The government has decided to install renewable energy devices at prominent sites. Citizens will be more aware of their benefits.
- (A) The government's decision
- (B) Deciding to instal
- (C) By making citizens
- (a) Only (A) (b) Only (A) and (B)
- (c) Only (B) (d) Only (C)
- (e) None of these

130. The company's sales were low at the beginning of the year. Its sales have picked up in the past few months.
- (A) Though the company's sales were low  
(B) Despite low sales at  
(C) However the company's sales have picked  
(a) Only (A)                      (b) Only (A) and (B)  
(c) All (A), (B) and (C)      (d) Only (B) and (C)  
(e) None of these

**DIRECTIONS (Qs. 131-135) :** Five statements are given below, labelled a, b, c, d and e. Among these, four statements are in logical order and form a coherent paragraph/passage. From the given options, choose the option that does not fit into the theme of the passage.

131. (a) The reference was to China, a country that has been courting Pakistan for several years through a number of means including assistance in its nuclear programme.  
(b) After the Uri attacks, Pakistan's special Kashmir envoy Mushahid Hussain Syed declared that the US was a waning power, suggesting that Pakistan was seeking out other allies.  
(c) The most important concern relates to the possible conflict in Pakistan between votaries of economic development and supporters of militancy.  
(d) This corridor—which includes road, rail and port infrastructure—is expected to allow China to avoid the vulnerable Indian Ocean route currently used to transport oil from the Gulf.  
(e) Of late, there has been much talk of the China-Pakistan Economic Corridor (CPEC) that stretches from the autonomous region of Xinjiang to the Gwadar port.
132. (a) India recently ratified the Paris Agreement, assuring it a seat at the 55/55 table  
(b) ratification by at least 55 countries and accounting for at least 55% of global greenhouse gas (GHG) emissions was required for the agreement to come into force  
(c) where countries will negotiate the mechanisms and provisions under the agreement.  
(d) With the ratification, India has demonstrated leadership in climate negotiations but left some with concerns about signing an agreement without realizing its full implications.  
(e) There are certain targets India wants to achieve and to achieve that there is a need to allocate mitigating burden among states and also prioritize adaptation efforts.
133. (a) Corporate Social Responsibility has entered India's legal corridors.  
(b) Given the need for proper legal help for a diverse section of society even the PM, in his address at the Bar Council's centenary celebrations earlier this year, urged lawyers to take on more pro bono cases.  
(c) Top law firms and lawyers are doing pro bono so that they can give back to society.  
(d) In India, traditionally, pro bono legal work was carried out by lawyers who had dedicated themselves to helping society.  
(e) There are a number of socially aware and generous souls who are increasingly lending their expertise for

pro bono work.

134. (a) A look at the historical data on forecasts made by the IMF in its World Economic Outlook (WEO) reports seems to suggest that optimism bias may be the bigger culprit.  
(b) The large negative forecast errors in the recession years skewed the historical averages.  
(c) Over the past few years, the growth forecasts made by the International Monetary Fund (IMF) have displayed one consistent pattern  
(d) the forecasts are rosy at the start of the year, then revised downwards towards the end of the year, and the actual estimates of real growth turn out to be even lower.  
(e) Has predicting the fate of the global economy become more difficult in a volatile post-crisis world, or does the IMF suffer from an inherent optimism bias?
135. (a) India has 13 of the 20 most polluted cities in the world, according to the World Health Organization.  
(b) The government should redouble its efforts to combat climate change, which will naturally slash not just greenhouse-gas emissions but particulates as well.  
(c) Every year, more than half a million people are estimated to die prematurely because of air pollution.  
(d) While air quality tends to worsen around this time of year as millions of Indians light firecrackers to celebrate the Diwali festival, the problem isn't limited by season or geography.  
(e) This week, air pollution in New Delhi has been truly off the charts: Tiny particulates, which are especially deadly, topped 999 micrograms per cubic meter—40 times what is considered safe and beyond what the scale was designed to measure.

**DIRECTIONS (Qs. 136-140):** Please select the most appropriate option, out of the five options given for each of the following sentences, which, in your view, should be grammatically and structurally correct. Please note that the meaning & context of the sentence must not change.

136. (a) Although I already knew the answer and he invited me to visit him often, since I just have seen her in the square, I was never determined to yield this point.  
(b) Although I have already known the answer and he invited me to visit him often but since I just have seen her in the square, I was not determined to yield this point.  
(c) Although I knew the answer already, and he has often invited me to visit him, since I just have seen her in the square, I am never determined to yield this point.  
(d) Although I already know the answer and he often invited me to visit him, since I have just seen her in the square, I am determined never to yield this point.  
(e) None is true.
137. (a) If I have enough money I would have backpack around Europe. But unfortunately I was broken.  
(b) If I have had enough money, I would have done backpack around Europe. But, unfortunately I am broke.  
(c) If I had enough money I would backpack around Europe. But, unfortunately I am broke.

- (d) If I have enough money I would backpack around all over the Europe. But unfortunately I am broke.  
 (e) None is true.
138. (a) The judges finally distributed the awards among the most active children talking at length among themselves.  
 (b) The judges finally distributed the awards talking at length among themselves.  
 (c) The judges, talking at length among themselves finally distributed the awards among the most active children.  
 (d) The judges distributed finally talking at length among themselves the awards among the most active children.  
 (e) None is true.
139. (a) I have been ill for fortnight and the Management and the school sports committee as well prefer to elect me the Captain of school team. Initially I thought that it is only in a fun but I was wrong.  
 (b) I had been ill for the fortnight and the Management and the school sports committee preferred to elect me the Captain of school team. Initially I thought that it was only in a fun but I was wrong.  
 (c) I have been ill for a fortnight and the Management as well as the school sports committee prefers to elect me Captain of school team. Initially I thought that it was only in fun but I was wrong.  
 (d) I was ill for fortnight thus the Management as well as the school sports committee preferred to elect me the Captain of school team. Initially I thought that it was only in a fun but I was wrong.  
 (e) All are true
140. (a) If you try to understand the concept in the class you will not only remember it but also will not be able to put to use while solving even the difficult exercises.  
 (b) If you tried to understand the concept of the whole class, you will not only remember it, but also can put to use while solving even the difficult exercises.  
 (c) If you tried to understand the concept in the class, you would not only remember it but also can put it to use while solving even the difficult exercises.  
 (d) If you tried to understand the concept in the class, you would not only remember it but also could put it to use while solving even the difficult exercises.  
 (e) None is true.

## Computer Knowledge

141. Assembly is a \_\_\_\_\_ based low-level language replacing binary machine-code instructions, which are very hard to remember, it is the classic and uncontroversial example of a low level language.  
 (a) Memory (b) High Level  
 (c) Key (d) Mnemonic  
 (e) FORTRAN
142. China now has more of the world's fastest supercomputers than other countries. Which among the following is a Chinese super computer?  
 (a) BlueGene/Q system (b) Cray XC30  
 (c) Shaheen II (d) Fujitsu's K  
 (e) Tianhe-2
143. AT&T designed its first commercial modem, specifically for converting digital computer data to analog signals for transmission across its long distance network. What is the name of the modem?  
 (a) Telex (b) Memex  
 (c) CompuServe (d) Bell 103 dataset  
 (e) Dataphone
144. In Computer programming there is set of subroutine definitions, protocols, and tools for building software and applications. Which among the following is a term for sets of requirements that govern how one application can talk to another?  
 (a) UPS (b) API  
 (c) CGI (d) J2EE  
 (e) OLE
145. BSoDs can be caused by poorly written device drivers or malfunctioning hardware, such as faulty memory, power supply issues, overheating of components, or hardware running beyond its specification limits. Which color screen is displayed when encountered a BSOD Error?  
 (a) Red (b) Grey  
 (c) Black (d) Blue  
 (e) Green
146. Which among the following is a cloud computing platform and infrastructure created by Microsoft?  
 (a) Simple Storage Service  
 (b) Atmos  
 (c) Openstack Swift  
 (d) OceanStore  
 (e) Azure
147. After a credit card transaction has been authorized by the issuing bank by sending an authorization code to the merchant, the settlement stage of the process begins. Which of the following is a system type used to process such statements?  
 (a) Multitasking (b) Memory Processing  
 (c) Level Processing (d) Batch Processing  
 (e) Online Processing
148. There is a network that can connect networks ranging from small location or area to a bigger range including public packet network and large corporate networks. That network's enterprise allows users to share access to applications, services and other centrally located resources. Its ability for a huge geographical access has transformed networking. Which among the following is that network?  
 (a) SAN (b) CAN  
 (c) LAN (d) WAN  
 (e) MAN
149. Which cloud is a cloud computing environment that uses a mix of on-premises, private cloud and third-party, public cloud services with orchestration between the two platforms and it is particularly valuable for dynamic or highly changeable workloads?  
 (a) Dynamic Cloud (b) Advance Cloud  
 (c) Hybrid Cloud (d) Sharing Cloud  
 (e) Combined Cloud
150. Which among the following is not an Object Oriented Programming Language?  
 (a) Python (b) PASCAL  
 (c) Java (d) C++  
 (e) Ruby



151. Which among the following is a term representing unit of data storage in computer memory?  
 (a) Pixel (b) Decimal  
 (c) Octet (d) Point  
 (e) Fragment
152. Which among the following is a recently debated principle that Internet service providers and governments regulating the Internet should treat all data on the Internet the same, not discriminating or charging differentially by user, content, website, platform, application, type of attached equipment, or mode of communication?  
 (a) Comcast (b) Net Neutrality  
 (c) Oblique-net (d) Net Fraternity  
 (e) Fair Web
153. Which among the given options is IBM's Supercomputer?  
 (a) Tihane-2 (b) SunwayTaihu Light  
 (c) Watson (d) Shasra-T  
 (e) Brain
154. Which among the following is an important circuitry in a computer system that directs the operation of the processor?  
 (a) Memory (b) Address Bus  
 (c) Accumulator (d) ALU  
 (e) Control Unit
155. Which is a feature included in Microsoft PowerPoint software that allows the user to see all the slides in a presentation at one time?  
 (a) Slide Sorter (b) Slide Master  
 (c) Handout Master (d) Slide Header  
 (e) Reading View
156. Which of the following error occurs when software tries to access protected memory?  
 (a) Segmentation Fault (b) Displaytime Error  
 (c) IO Error (d) Runtime Error  
 (e) Zero Division Error
157. In Computer programming API is set of subroutine definitions, protocols, and tools for building software and applications. Which among the following is an application programming interface for the programming language Java, which defines how a client may access a database?  
 (a) J2EE (b) JDK  
 (c) JAVASE (d) JDBC  
 (e) JSX
158. A router is a networking device that forwards data packets and is connected to two or more data lines from different networks. Which among the following was the earliest device which had almost the same functionality as that of a router?  
 (a) Interface Delay Device  
 (b) Interface Traffic Manager  
 (c) Interface Routing Processor  
 (d) Interface Message Processor  
 (e) Interface Data Manager
159. Android is a mobile operating system designed primarily for touch screen mobile devices such as smartphones and tablets. Which among the following was the first Android Operating System?  
 (a) Cupcake (b) Alpha  
 (c) Gingerbread (d) Doughnut  
 (e) Eclair
160. Which among the following key can be used as a shortcut to rename a folder in Microsoft Windows 8 and higher versions?  
 (a) F2 (b) F4  
 (c) F6 (d) F9  
 (e) F11

### General Awareness with reference to Special Banking

161. The Nobel Peace Prize 2016 has been awarded to \_\_\_\_\_.  
 (a) Juan Manuel Santos (b) Oliver Hart  
 (c) Bengt Holmstrom (d) Svetlana Alexievich  
 (e) Bob Dylan
162. Who among the following India's Paralympic athletes has won the title of Gold Javelin F46 in Rio 2016 Paralympic Games?  
 (a) Varun Singh Bhati  
 (b) Deepa Malik  
 (c) Amit Kumar Saroha  
 (d) Mariyappan Thangavelu  
 (e) Devendra Jhajaria
163. What is the Ramanujam committee constituted for?  
 (a) To keep tab on the child trafficking  
 (b) To check corruption in Banks  
 (c) To oversee the foreign trade  
 (d) To avoid obsolete laws  
 (e) To check border dispute with Bangladesh
164. How much per cent of the Indian population have access to internet in India in 2015?  
 (a) 20 percent (b) 23 percent  
 (c) 29 percent (d) 26 percent  
 (e) None of the above
165. According to the 2016 Jane's Defence Budgets Report, India's position among the global defence spender is \_\_\_\_\_.  
 (a) Fourth (b) Third  
 (c) Ninth (d) Fifth  
 (e) Seventh
166. Which e-commerce website has partnered with National Highways Authority of India (NHAI) to enable cashless payments at all national and city toll plazas?  
 (a) Paytm (b) Mobikwik  
 (c) Freecharge (d) Oxigen  
 (e) UPI
167. Who among the following has been named as the 2016 ITF World Champions by the International Tennis Federation?  
 (a) Rafael Nadal (b) Andy Murray  
 (c) Roger Federer (d) Novak Djokovic  
 (e) None of the above
168. The National Green Tribunal (NGT) in December 2016 imposed a ban on the procurement, sale and use of glass powder coated 'manja' for flying kites. Who is the Chairman of NGT?  
 (a) Lokeshwar Singh Panta  
 (b) Jagdish Singh Khehar  
 (c) Dinesh Saxena  
 (d) Jasmine Sharma  
 (e) Swatanter Kumar



169. Which state government has enacted a stringent law called Protection of Internal Security Act to deal with the challenges of terrorism, insurgency, communalism and caste violence?  
 (a) Gujarat (b) Uttar Pradesh  
 (c) Bihar (d) Maharashtra  
 (e) Nagaland
170. India signed an MoU with which country for strengthening cooperation in the field of Tourism?  
 (a) Tajikistan (b) Turkmenistan  
 (c) Uzbekistan (d) Kyrgyzstan  
 (e) UAE
171. Which of the following does not fall into the functions of Payments Banks?  
 (a) acceptance of demand deposits  
 (b) Internet banking  
 (c) remittance services  
 (d) lending services  
 (e) Sell mutual funds, insurance and pension products
172. Loan and Advances of a bank come under the category of \_\_\_\_\_.  
 (a) Deposits (b) Expenditure  
 (c) Liabilities (d) Assets  
 (e) None of the above
173. If the rupee depreciates, how the exporters are affected?  
 (a) They are unaffected  
 (b) They are in loss  
 (c) They are in profit  
 (d) They get credit crunch  
 (e) None of these
174. The rate of inflation increases when the purchasing power of money \_\_\_\_\_.  
 (a) Decreases (b) Increases  
 (c) Stable (d) Decrease just half  
 (e) None of these
175. The high-security banknote production facility which is credited with the design of the Rs 2000 banknote has been set up at \_\_\_\_\_.  
 (a) Nasik (b) Dewas  
 (c) Mysuru (d) Noida  
 (e) Kolkata
176. For the buying and selling of precious metals such as Gold and Silver, the market established is termed as \_\_\_\_\_.  
 (a) Capital Market (b) Money Market  
 (c) Bullion Market (d) wholesale cash market  
 (e) None of the Above
177. To release wages under the Mahatma Gandhi National Rural Employment Guarantee Scheme direct and faster, an electronic fund management system has been launched by \_\_\_\_\_.  
 (a) State Bank of Hyderabad  
 (b) State Bank of Travancore  
 (c) State Bank of India  
 (d) Oriental Bank Corporation  
 (e) Exim Bank
178. Which among the following is the slogan of Allahabad Bank?  
 (a) A tradition of trust  
 (b) World wise  
 (c) Honour your trust  
 (d) Invest with confidence  
 (e) Trusted family bank
179. Which among the following is the difference in value between a country's imports and exports?  
 (a) Balance of Trade  
 (b) Balance of Payment  
 (c) Balance of power  
 (d) Credit Balance  
 (e) None of the above
180. What is Cash Reserve Ratio?  
 (a) Deposits of banks in government securities  
 (b) Rate at which banks borrow funds from the RBI  
 (c) Deposits (as cash) which banks have to keep/maintain with the RBI  
 (d) Rate at which RBI borrows money from the banks  
 (e) Rate at which RBI borrows money from the government
181. What does 'GIFT' stand for?  
 (a) Gujarat Institute of Fashion Technology  
 (b) Government of India Foreign Trade  
 (c) Gapping Income Free Of Tax  
 (d) Gujarat International Financial Tech  
 (e) Gujarat Institute of Future Technologies
182. To make India a cashless economy by pushing cashless transaction, which committee is constituted by the government?  
 (a) Adhyarjuna Committee  
 (b) Amitabh Kant Committee  
 (c) A Ghosh Committee  
 (d) Abid Hussain Committee  
 (e) AK Bhuchar Committee
183. Which of the following is the first micro finance company to start operation as a commercial bank?  
 (a) Oriental Bank of Commerce  
 (b) State Bank of India  
 (c) Reserve Bank of India  
 (d) Punjab National Bank  
 (e) Bandhan
184. Which of the following is not a primary function of a bank?  
 (a) Facilitating import of goods  
 (b) Remittance facility  
 (c) Safe custody of articles  
 (d) Foreign Exchange  
 (e) Purchase and Sale of Foreign Exchange
185. Which agency in India provides refinance of export credit?  
 (a) SIDBI (b) NABARD  
 (c) RBI (d) EXIM Bank  
 (e) Government of India
186. The Mumbai Stock Exchange was set up in \_\_\_\_\_.  
 (a) 1880 (b) 1930  
 (c) 1847 (d) 1875  
 (e) None of the above
187. When is the World Energy Conservation Day celebrated?  
 (a) November 15 (b) October 10  
 (c) December 25 (d) December 14  
 (e) March 31
188. The Maximum City: Bombay Lost and Found was written by \_\_\_\_\_.  
 (a) Vikram Seth (b) Suketu Mehta  
 (c) Upamanyu Chatterjee (d) Arundhati Roy  
 (e) Kiran Desai

189. In the '10th Asia Pacific Screen Awards' who won the Best Actor Award?  
 (a) Rajni Kant (b) Aamir Khan  
 (c) Manoj Bajpayee (d) Anupam Kher  
 (e) Om Puri
190. Which of the following awards is given in the field of literature?  
 (a) Arjuna Award (b) Ashok Chakra  
 (c) Vyas Samman (d) Bharat Award  
 (e) None of the above
191. In the Union Budget 2017-18, the MGNREGA allocation is to be \_\_\_\_\_  
 (a) Rs. 48,000 crore (b) Rs. 38,000 crore  
 (c) Rs. 56,000 crore (d) Rs. 33,000 crore  
 (e) None of the above
192. India was the highest ranked country by capital investment in 2015, with how much worth of FDI projects announced according to FDI Intelligence?  
 (a) \$63 billion (b) \$63 million  
 (c) \$66 billion (d) \$44 billion  
 (e) \$44 million
193. According to 2011 Census figures, which state has recorded the highest sex ratio?  
 (a) Uttar Pradesh (b) Haryana  
 (c) Punjab (d) Manipur  
 (e) Kerala
194. To curb black money in the economy, which of the following committees has been formed in 2016?  
 (a) Deepak Mohanty Committee  
 (b) Suresh Prabhu Committee  
 (c) Justice BM Shah committee  
 (d) Nachiket Mor Committee  
 (e) Justice CS Dharmadhikari Committee
195. Which of the following schemes is NOT related to the Digital India?  
 (a) Digital Locker  
 (b) e-education  
 (c) e-health  
 (d) National Scholarship Portal  
 (e) Make in India
196. The term 'Zero Based Budgeting' refers to \_\_\_\_\_.  
 (a) A specified sum of money authorized by the Legislature for a specific period of time  
 (b) To ensure that every rupee spent is result oriented  
 (c) A statutorily mandated form of reimbursement or up-front payment for state expenditures  
 (d) A cost item for which payment is made by one state agency to another  
 (e) A shortfall in an existing appropriation, or an additional amount needed to accomplish a new or expanded purpose
197. In which year in India, was the demonetisation announced for the first time?  
 (a) 1978 (b) 1999  
 (c) 1946 (d) 1962  
 (e) 1935
198. According to the Constitution (122nd Amendment) GST Bill 2014, which of the following is exempted from its purview?  
 (a) Tobacco Products (b) Alcohol  
 (c) Steel (d) Jute Products  
 (e) None of the above
199. What does the term 'Call Money' refer to?  
 (a) A loan made for a very short period of a few days or a week  
 (b) Student loans to help cover the cost of higher education  
 (c) Loans to allow consumers to buy homes they can't pay for upfront  
 (d) Personal loans for any personal expenses which don't have a designated purpose  
 (e) Loans to veterans and their families
200. India has signed a Grant Agreement for Additional Financing in Financing Energy Efficiency at MSMEs Project- Programmatic Framework for Energy Efficiency with \_\_\_\_\_.  
 (a) Asian Development Bank (ADB)  
 (b) International Fund for Agricultural Development (IFAD)  
 (c) European Bank for Reconstruction and Development (EBRD)  
 (d) International Bank for Reconstruction and Development (IBRD)  
 (e) World Bank

# HINTS & SOLUTIONS

1. (d) SI for Rs.7000 for 8 years =  $\frac{7000 \times r \times 8}{100}$   
 Again borrowed = 3000  
 $SI = \frac{3000 \times r \times 5}{100}$   
 $\text{Total interest} = \left[ \frac{7000 \times r \times 8}{100} \right] + \left[ \frac{3000 \times r \times 5}{100} \right] = 4615$   
 $560r + 150r = 4615$   
 $710r = 4615$   
 $r = 6.5\%$
2. (c)  $P \left( 1 + \frac{5}{100} \right)^4 - P - \left( \frac{P \times 2 \times 10}{100} \right) = 208.10$
3. (b) Profit = 5%  
 5% of CP = ₹50  
 CP = ₹1000  
 Now, Loss% = 10%  
 Loss = ₹100  
 $\text{Required \%} = \frac{100}{50} \times 100 = 200\%$
4. (a) Inspector is 228 meter behind the thief and now after some x distance he will catch the thief. So,  
 $\frac{x}{30} = \frac{228 + x}{42}$ , we will get x = 570m  
 So time taken by inspector to catch the thief =  $\frac{228 + 570}{42} = 19$  minutes
5. (c) If the speed downstream is a kmph and the speed upstream is b kmph then  
 $\text{Speed of the stream} = \frac{1}{2}(a-b) \text{ kmph}$   
 $\text{Speed downstream } a = 12 \text{ kmph}$   
 $\text{Speed upstream } b = 8 \text{ kmph}$   
 $\text{Speed of the stream} = \frac{1}{2}(a-b) = \frac{1}{2}(12-8)$   
 $= \frac{4}{2} = 2 \text{ kmph}$   
 $\text{Speed of the stream} = 2 \text{ kmph}$
6. (a) James' father present age = x  
 James' age =  $\frac{2}{7}x$   
 James' brother age =  $\frac{2}{7}x + 3$   
 $\frac{x}{\frac{2}{7}x + 3} = \frac{14}{5}$

$$x = 42$$

$$\text{James' age} = \frac{2x}{7} = \frac{2}{7} \times 42 = 12$$

7. (b) Property value of Mugilan x  
 $130 \times 3 = x + x + 20 + x + 20 + 50$   
 $390 = 3x + 90$   
 $3x = 300$   
 $x = 100$   
 Anitha =  $100 + 20 + 50 = 170$
8. (c)  $\left( \frac{1}{24} + \frac{1}{30} \right) \times 6 + \left( \frac{1}{24} + \frac{1}{C} \right) \times 11 = 1$
9. (b) Let T is the time taken by the pipes to fill the tank  
 $\left( \frac{1}{12} + \frac{1}{18} + \frac{1}{24} \right) \times (T-12) + \left( \frac{1}{12} + \frac{1}{18} \right) \times 12 = 1$   
 We will get  $T = 108/13 = 8\frac{4}{13}$  hrs
10. (a) Let initial employee be 14a and final employee be 12a similarly initial wage is 16b and final wage be 18b  
 Total initial wage =  $14a \times 16b = 224ab$ , total final wage =  $12a \times 18b = 216ab$   
 So clearly wages decreases and ratio =  $224ab : 216ab = 28 : 27$
11. (b) D = 14  
 $R = D/2 = 14/2 = 7$   
 $\text{Area of each slice of Pizza} = \pi r^2 \frac{\theta}{360^\circ}$   
 $= \frac{22}{7} \times 7 \times 7 \times \left( \frac{45}{360} \right)$   
 $= 19.25$
12. (b) Let initial quantity be Q, and final quantity be F  
 $F = Q \left( 1 - \frac{8}{Q} \right)^4$   
 $\frac{81}{625} = \left( 1 - \frac{8}{Q} \right)^4$   
 $\frac{3}{5} = \frac{1-8}{Q}$   
 $Q = 20$
13. (c) Ratio in which the profit will divide – 23:15. Let the profit be P  
 Now,  $\left[ \left( \frac{23}{38} \right) - \left( \frac{15}{38} \right) \right] \times \left( \frac{60}{100} \right) \times P = 500$   
 $P = 3958.34$
14. (a)  $\frac{A}{B} = \frac{15}{16}$  and  $\frac{B}{C} = \frac{17}{18}$   
 So A : B : C =  $15 \times 17 : 16 \times 17 : 16 \times 18$   
 $= 255 : 272 : 288$   
 So C's salary =  $\frac{288}{255 + 272 + 288} \times 187450 = 66,240$

15. (b) Let A takes x hours, then B = (x+40) hours

$$\frac{1}{x} + \frac{1}{x+40} = \frac{1}{15}$$

Solve, x = 20

16. (d)  $20 \times 2 - 1^2 = 39$

$$39 \times 2 - 2^2 = 74$$

$$74 \times 2 - 3^2 = 139 \dots$$

17. (c)  $\frac{14}{2} + 1 = 8, \frac{8}{2} + 2 = 6$

$$\frac{6}{2} + 3 = 6$$

18. (a)  $6 \times 1 + 7 = 13$

$$13 \times 2 - 6 = 20$$

$$20 \times 3 + 5 = 65 \dots$$

19. (b)  $14 \times 1 - 8 = 6$

$$6 \times 2 - 8 = 4$$

$$4 \times 3 - 8 = 4$$

20. (a)  $6 \times 2 + 4 = 16$

$$16 \times 3 - 3 = 45$$

$$45 \times 4 + 4 = 184 \dots$$

21. (e)  $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}$   
x = 1, 2

$$\frac{1}{y-3} - \frac{1}{x+5} = \frac{1}{3}$$

$$y = -3, 7$$

22. (a)  $5x + 2y = 31$  —(1)

$$3x + 7y = 36$$
 —(2)

By solving eqn(1) and (2)

$$x = 5; y = 3$$

23. (a)  $7x + 6y + 4z = 122$  —(1)

$$4x + 5y + 3z = 88$$
 —(2)

$$9x + 2y + z = 78$$
 —(3)

$$\text{From (1) and (2)} \Rightarrow 5x - 2y = 4$$
 —(a)

$$\text{From (2) and (3)} \Rightarrow 23x + y = 146$$
 —(b)

$$\text{From (a) and (b)} \Rightarrow x = 6, y = 8. \text{ Put values in eqn (3)} \Rightarrow$$

$$z = 8$$

24. (b)  $4x + 2y = 8.5$  —(I)

$$2x + 4y = 9.5$$
 —(II)

By solving eqn (I and II)

$$x = 1.25, y = 1.75$$

25. (c)

26. (d)  $38 + 45.72(123) = 5661.56 = 5662$

27. (c)  $0.12 + 6.25 = 6.37$

28. (a)  $276.75 + 27.12 + 70.0169 = 304$

29. (d)  $73/11 \times 49/9 \times 4/37 = 3.9 = 4$

30. (d)  $2439.36 = 428.64 + ?$

$$? = 2010.72 = 2011$$

31. (b) 5 digit number =  $5! = 120$

Divisible by 5 then the last digit should be 0

Then the remaining position have the possibility =  $4!$

$$= 24$$

$$P = (4!/5!) = 24/120 = 1/5$$

32. (c)  $n(E) = {}^5C_3 + {}^4C_3 + {}^3C_3 = 10 + 4 + 1 = 15$

$$n(S) = {}^{12}C_3 = 220$$

$$P = n(E)/n(S) = \frac{15}{220} = \frac{3}{44}$$

$$\text{Required probability} = \frac{1-3}{44} = \frac{41}{44}$$

33. (b)  $7 \times 5 = 35$

$$35 - 1 = 34$$

34. (b)  $n(S) = {}^{52}C_3 = \frac{132600}{6} = 22100$

$$n(E) = {}^4C_3 = \frac{24}{6} = 4$$

$$p = \frac{4}{22100} = \frac{1}{5525}$$

35. (b)  $(16-2)! \times 2 = 14! \times 2$

36. (b)  $F = 32 \times \frac{15}{100} = 4.8 \text{ lak}$

$$M = 39 \times \frac{18}{100} = 7.02 \text{ lak}$$

$$480 : 702 = 80 : 117$$

37. (c)  $M = 39 \times \frac{9}{100} = 3.51 \text{ lak}$

$$F = 32 \times \frac{22}{100} = 7.04 \text{ lak}$$

$$\text{Total} = 10.55 = 10.55 \text{ lak}$$

38. (d)  $M = 39 \times \frac{20}{100} = 7.8 \text{ lak}$

$$F = 32 \times \frac{12}{100} = 3.84$$

$$\text{Diff} = 7.8 - 3.84 = 3.96 \text{ lak}$$

39. (c)  $AP = 39 \times \frac{14}{100} = 5.46 \text{ lak}$

$$UP = 39 \times \frac{10}{100} = 3.9 \text{ lak}$$

$$M = 39 \times \frac{18}{100} = 7.02 \text{ lak}$$

$$WP = 39 \times \frac{20}{100} = 7.81 \text{ lak}$$

$$TN = 39 \times \frac{23}{100} = 8.97 \text{ lak}$$

$$J \& K = 39 \times \frac{9}{100} = 3.51 \text{ lak}$$

$$G = 39 \times \frac{6}{100} = 2.34 \text{ lak}$$

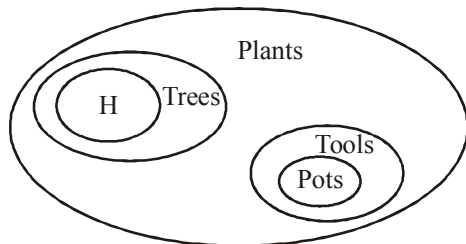
$$\text{Avg} = 38.99/7 = 5.57 \text{ lak}$$

40. (d)  $AP + M = 11 + 8 = 19\%$

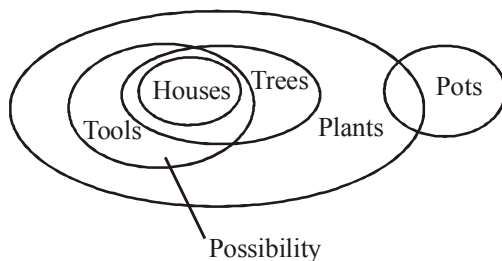
$$\text{Angle} = 19 \times \frac{360}{100} = 68.4 \text{ degree}$$



41. (b) 2002 F = 12000  
2005 C = 14000  
D = 14000 - 12000 = 2000
42. (a) 2004 total = 132 + 110 + 120 = 36200  
Tennis total = 72000  
 $\% = 36200 \times \frac{100}{7200} = 50.28\% \approx 50$
43. (a)  $120 + 100 + 120 + 135 + 110 + 100/6 = 685/6 = 114.17$   
 $114.17 \times 100 = 11417$
44. (c) 2003 = 12000  
2001 = 16000  
 $\% = \frac{(16000 - 12000)/16000}{100} = 25\%$
45. (b) 2001 = 260  
2004 = 252  
R = 260:252 = 65:63
46. (b) Staff = 200  
Students = 2800  
200:2800 = 2:28 = 1:14
47. (c) IT = 90  $\Rightarrow$  4:5  $\Rightarrow$  40 (male)  
EIE = 70  $\Rightarrow$  18:17  $\Rightarrow$  36 (male)  
40 + 36 = 76  
Total = 90 + 70 = 160  
 $76 \times 100/160 = 47.5\%$
48. (a) 2200  $\Rightarrow$  9:13  $\Rightarrow$  900:1300  
 $400 \times \frac{100}{900} = 44.45\%$
49. (d) 1600  $\Rightarrow$  17:15 = 850:750(f)
50. (c)  $\frac{(120 + 80 + 150 + 90 + 140 + 70)}{6} = \frac{650}{6} = 108.3$
51. (c) If some plants are tools, then some plants will be pots too which is not possible.  
If all trees are tools, then also some plants will be pots too which is not possible.  
Some plants are definitely houses.  
IV is a possibility
52. (b) All plants are houses is a possibility, so I does not follow.  
II is a possibility.

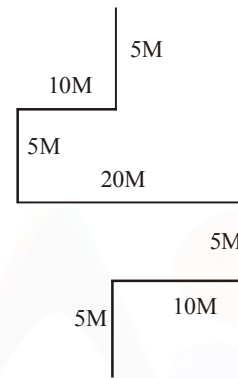


III is a possibility as



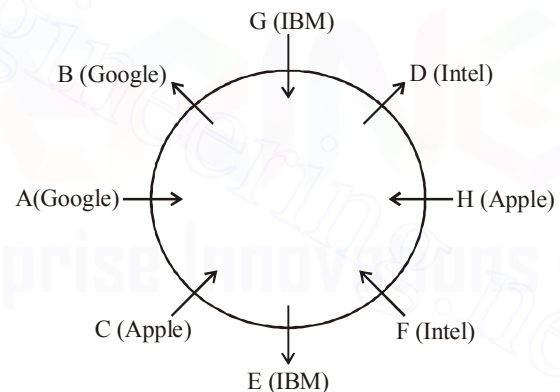
IV is possibility as

53. (a) If some tools are figures, then some lions will be tools which is not possible.  
II is a possibility.  
III is not definite. Roofs can be tools
54. (d) I and III are false, subject and predicate same so either or occurs  
IV is not definite.  
II. If all buckets are frames, then some frames will be photos which is not possible.
55. (d) If all sites are buns, then some covers will be buns which is not possible.  
II is a possibility.  
All sites are buns is not a possibility, so III follows.  
No seat is bun, because no cover is bun
56. (c) 57. (a) 58. (b) 59. (d) 60. (c)
61. (e)



20 meter.

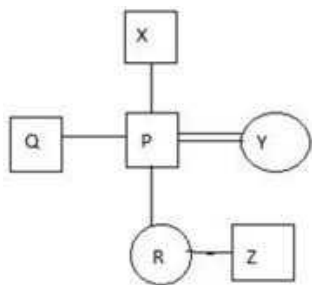
Sol. (62-66)



62. (d) 63. (a) 64. (b) 65. (c) 66. (d)
67. (c)  $X \leq W < Z = Y$   
 $Y > W \Rightarrow \text{true}$   
 $Z > W \Rightarrow \text{true}$   
 $X \geq Y \Rightarrow \text{false}$
68. (e)  $D > E \geq C < A$   
 $C \leq D \Rightarrow \text{False}$   
 $A > E \Rightarrow \text{false}$   
 $A > D \Rightarrow \text{false}$
69. (d)  $M < O = P \geq N$   
 $P \geq M = \text{false}$   
 $N < O$   
 $N = O$
70. (c)  $A \geq C > B = E$ ,  $E < C \Rightarrow \text{true}$   
 $B < A \Rightarrow \text{true}$ ,  $A \geq E \Rightarrow \text{false}$

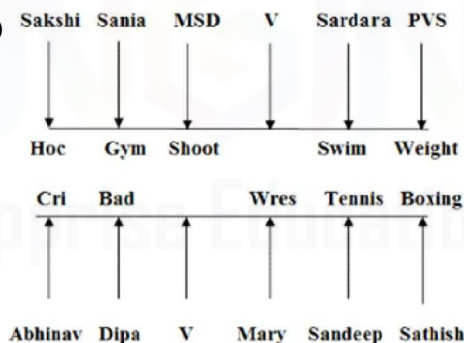
71. (b)  $P \geq S > R \leq Q$   
 $Q > S \Rightarrow$  false  
 $R < P \Rightarrow$  true  
 $R = P \Rightarrow$  false

**Sol. (72-75)**



72. (c) 73. (b) 74. (b)  
 75. (a) P and Q are brothers and Z is the brother of R  
 76. (b) Since millions of people are expected for 1 day at the Ganga, this means there is some festival or alike. And govt. cant ban entry on any festival. And yes law and order should be maintained by the police.  
 77. (e) Since the locality is getting flooded by water, immediate action should be taken to start repairing. And also the compensation should be asked by the company since its workers did not done their work properly because of which outburst happened.  
 78. (a) The parents should be contacted, but for this act students cannot be put behind bars.  
 79. (b) The licenses should not be cancelled.  
 80. (b) The marriages cannot be put on hold like that.

**Sol. (81-85)**



81. (b) 82. (d) 83. (b) 84. (c) 85. (b)

**Sol. (86-90)**

Person	Day	Time Slot
G	Mon	10.00 AM
B	Mon	3.00 PM
I	Tue	10.00 AM
D	Tue	3.00 PM
E	Wed	10.00 AM
C	Wed	3.00 PM
F	Thu	10.00 AM
A	Thu	3.00 PM
H	Fri	10.00 AM
J	Fri	3.0 M

86. (c) 87. (a) 88. (d) 89. (e) 90. (b)

**Sol. (91-95)**

Floor No	Person	Bike
8	B	HP
7	C	Asus
6	G	Samsung
5	F	Apple
4	H	Acer
3	E	DELL
2	A	TOSHIBA
1	D	Lenovo

91. (a) 92. (e) 93. (c) 94. (c) 95. (b)  
 96. (e) The performance of the individual has to be tested over a span of time as the statement mentions. So, I is implicit. The statement mentions that the individual's worth shall be reviewed (during probation period) before confirmation. So, II is also implicit.  
 97. (a) Since the statement talks of putting the child in school at the age of 5, it means that the child is mentally prepared for the same at this age. So, I is implicit. But nothing about admission after 6 years of age is mentioned in the statement. So, II is not implicit.  
 98. (b) Assumption I goes against the statement. So, it is not implicit. The allowance will serve as a reward to the employees and shall provoke them to come on time. So, II is implicit.  
 99. (a) I directly follows from the statement and so is implicit. Also, the statement is a suggestion and does not tell about a government policy or its position of funds. So, II is not implicit.  
 100. (a) The mother warns her child with the expectation that he would stop troubling her. So, I is implicit. The general nature of children cannot be derived from the statement. So, II is not implicit.  
 101. (c) With an interview given by economic affairs secretary Shaktikanta Das it is clearly mentioned that government has to work under some fiscal constraints and it is making efforts to present a growth oriented budget. Fiscal constraints are characteristics and not an objective and hence option (b) is wrong.  
 102. (a) In the fifth passage it is said by economist Madan Sabnav is the government has to increase its allocation for public investment on infrastructure to stimulate growth.  
 103. (c) The new budget is based on four pillars: poverty eradication, farmers' prosperity, job creation and a better quality of life for all Indian citizens. The new budget will ensure that India will continue towards stability even in disturbed and choppy situations.  
 104. (c) In the second last passage it is mentioned that the government has been providing tax incentives to companies in the manufacturing sector, including tax deductions on emoluments paid to new employees, to encourage firms to step up hiring and create jobs under its Make in India initiative.  
 105. (e) The government has considered various suggestions which includes a, b, c and d. The option (e) is not mentioned anywhere in the passage.  
 106. (c) In the opening paragraph it is clearly mentioned that,

- 'This critical piece is 'savings' and, within this overall head, household savings is the one critical subcomponent that needs close watching and nurturing.' Therefore the main concern behind the alarm bells is option (c). Option (a) is a regular phenomenon. Option (b) is not the main concern as it is a temporary problem. Option (d) is not mentioned. Option (e) is ruled out.
107. (b) In the opening line of the second paragraph it is stated that, 'while it is true that one of the primary reasons behind the current economic slowdown is the tardy rate of capital expansion - or, investment in infrastructure as well as plant and machinery - all attempts to stimulate investment activity are likely to come to naught if savings do not grow.' Therefore option (b) is the only correct choice.
108. (a) In the second paragraph it is said that, 'Without any growth in the savings rate, it is futile to think of any spurt in investment and, consequently, in the overall economic growth.' Therefore, option (a) overall economic growth is directly related to household savings is correct.
109. (c) It is mentioned in the passage that, 'India has another facet: a penchant for physical assets (such as bullion or land). After the monsoon failure of 2009, and the attendant rise in price levels that has now become somewhat deeply entrenched, Indians have been stocking up on gold. Consequently, savings in financial instruments dropped while those in physical assets shot up.' Therefore option (c) is correct.
110. (e) It is clearly mentioned in the passage that, 'While recognising that one of the key differences in the evolving household saving scenario between the UK and India is the impact of demographics (dependency ratio), anecdotal evidence on increasing consumerism and the entrenchment of (urban) lifestyles in India, apart from the easier availability of credit and improvement in overall macroeconomic conditions, is perhaps indicative of some 'drag' on household saving over the last few years as well as going forward.' Therefore option (e) is the correct answer.
111. (e) Prodigy refers to a particular quality and its close meaning is the word 'epitome' that refers to, example of a particular quality or type.
112. (b) Nondescript refers to, lacking distinctive or interesting features or characteristics. Option (b) 'discern' has the nearest meaning that refers to, distinguish someone or something with difficulty by sight or with the others senses which means it lacks distinctive characteristics.
113. (b) Savant means a person who knows a lot about a particular subject. Option (b) postulant refers to a candidate, especially one seeking admission into a religious order that means he knows more about religion.
114. (d) Corpulent means fat or well-built and its same meaning is expressed in option (d) obese that means grossly fat or overweight.
115. (a) Embezzle means, steal or misappropriate money placed in one's trust or belonging to the organization for which one works. Its near word, option (a) 'misappropriate' means; dishonestly or unfairly take something, especially money, belonging to another for one's own use.
116. (c) Difficult will replace easier and going for an election will be running for election.
117. (b) We have in America a hybrid speech..... But a combination of all three is the correct improvement.
118. (d) Far from being a tight focused Narrative.....instead an expansive novel
119. (c) So docile and truculent that.....sudden virulence toward
120. (a) See through the deception.....and promptly forced him down.
121. (d) The description of the radiant lights and the last line logically invites option (d) we sat benumbed by the proceedings, for the radiance of the Time Traveler was unimaginable and unbearable.
122. (c) It is said that Metaphysics is a purely speculative science.... It deals with mere conceptions and the last sentence, It is the oldest of the science, logically concludes option (c), But it has never had and never will have the good fortune to attain to the sure scientific method.
123. (d) The second sentence--- In such a case....Indian entity could be treated.... Again the sentence that runs after the blank....During the last decade or so, suggests option (d), A new trend is seen in last decade is the correct choice.
124. (d) Capital allocation (about how much) would be based on such strategies of risk aggregation which is really a new concept to Indian banks.
125. (e) The most serious consequence of inflation is its unfavourable bearing on day to day commodities that are used by the common man.
126. (a) At the risk of investing in mutual funds RBI is likely to ask banks to reduce their investments in mutual funds.
127. (b) Since twelve million youth enter the Indian work force every year, eight per cent of these youth are unskilled.
128. (a) Although food inflation is touching twenty per cent, the government will have to tighten monetary policy to prevent further rise.
129. (e) None of these
130. (a) Though the company's sales were low at the beginning of the year, its sales have picked up in the past few months.
131. (c) This option deviates from main line of thought which is centered round China-Pak developing relationship.
132. (e) This option deviates from the Paris Agreement and India's ratification.
133. (a) Logically Corporate Social Responsibility does not fit with pro bono cases.
134. (e) This statement differs from IMF's optimism bias.
135. (b) The statement differs as the logical sequence talks about pollution in Indian cities.
136. (e) None of the above sentence is structurally and grammatically correct.
137. (c) If I had enough money I would backpack around Europe. But, unfortunately I am broke.
138. (c) The judges, talking at length among themselves finally distributed the awards among the most active children.



139. (c) I have been ill for a fortnight and the Management as well as the school sports committee prefers to elect me Captain of school team.
140. (b) If you tried to understand the concept of the whole class, you will not only remember it, but also can put to use while solving even the difficult exercises.
141. (d) Assembly language is mnemonic based low level language. Mnemonics are short codes of assembly language which chosen to remind the programmer of the instructions of binary machine-code which are apparently which are very hard to remember, write down, or correct.
142. (e) Tianhe-2 is China's Supercomputer. It was the fastest until its position being taken up by Sunway Tiahu Light as the Fastest Supercomputer.
143. (e) In 1960's AT&T introduces its Data phone, the first commercial modem. The first commercial modem made for converting digital computer data at analog signals for transmission across long distance networks
144. (b) An API may be for a web-based system, operating system, database system, computer hardware, or software library. It is an acronym for Application Programming Interface. An API specifies how software components should interact and APIs are used when programming graphical user interface (GUI) components.
145. (d) BSODs appear when Microsoft Windows encounters a critical error it can't recover from, requiring a reboot and possibly resulting in lost work. It stands for blue screen of death. Blue screens are generally caused by problems with your computer's hardware or issues with its hardware driver software. A blue screen occurs when Windows encounters a "STOP Error." This critical failure causes Windows to crash and stop working
146. (e) Microsoft is a cloud computing platform and infrastructure created by Microsoft for building, deploying, and managing applications and services through a global network of Microsoft-managed data centers. Azure was announced in October 2008 and released on 1 February 2010 as Windows Azure, before being renamed to Microsoft Azure on 25 March 2014.
147. (d) After a credit card transaction has been authorized by the issuing bank by sending an authorization code to the merchant, the settlement stage of the process begins. This is called batch processing because a number (or batch) of transactions is settled all at one time.
148. (d) WAN stands for Wide Area Network. A wide area network (WAN) is a geographically distributed private telecommunications network that interconnects multiple local area networks (LANs). In an enterprise, a WAN may consist of connections to a company's headquarters, branch offices, collocation facilities, cloud services and other facilities.
149. (c) Hybrid cloud is a cloud computing environment which uses a mix of on-premises, private cloud and third-party, public cloud services with orchestration between the two platforms. By using a Hybrid approach, companies can maintain control of an internally managed private cloud while relying on the public cloud as needed.
150. (b) Pascal is an imperative and procedural programming language designed in 1968/1969 and published in 1970 by Nicklaus Wirth as a small and efficient language intended to encourage good programming practices using structured programming and data structuring.
151. (c) Octet is another name for a byte=8bits
152. (b) Net Neutrality means an Internet that enables and protects free speech. It means that Internet service providers should provide us with open networks - and should not block or discriminate against any applications or content that ride over those networks.
153. (c) Watson is IBM's Super Computer
154. (e) The Control Unit (CU) is digital circuitry contained within the processor that coordinates the sequence of data movements into, out of, and between a processor's many sub-units.
155. (a) Slide Sorter view is a feature included in Microsoft PowerPoint software that allows the user to see all the slides in a presentation at one time. The slides appear in the task pane as small graphics that are arranged in rows and columns.
156. (a) A segmentation fault is a common condition that causes programs to crash; they are often associated with a file named core. They are caused by a program trying to read or write an illegal memory location. In other words, this is a memory access violation error.
157. (d) Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is part of the Java Standard Edition platform, from Oracle Corporation.
158. (d) The very first device that had fundamentally the same functionality as a router does today was the Interface Message Processor (IMP); IMPs were the devices that made up the ARPANET, the first TCP/IP network.
159. (b) Alpha was android version 1.0 released on 23rd September 2008. Android is continually developed by Google and the Open Handset Alliance (OHA), and has seen a number of updates to its base operating system since the initial release.
160. (a) F2 is a shortcut to rename selected object in MS windows 8 and higher versions.
161. (a) 162. (e) 163. (d) 164. (d) 165. (a)  
 166. (a) 167. (b) 168. (e) 169. (d) 170. (d)  
 171. (d) 172. (d) 173. (c) 174. (a) 175. (c)  
 176. (c) 177. (b) 178. (a) 179. (a) 180. (c)  
 181. (d) 182. (b) 183. (e) 184. (a) 185. (d)  
 186. (d) 187. (d) 188. (b) 189. (c) 190. (c)  
 191. (a) 192. (a) 193. (e) 194. (c) 195. (d)  
 196. (b) 197. (c) 198. (b) 199. (a) 200. (d)

# IBPS RRB OFFICER SCALE-I EXAM

Held on : 11 December, 2016

Based on Memory

## Quantitative Aptitude

**DIRECTIONS (1-5) :** What should come in place of questions mark (?) in the following number series ?

1. 35 118 280 600 ? 2504 5036  
(a) 1364 (b) 1236  
(c) 1362 (d) 1361  
(e) None of these
2. 5 7 10 36 136 ?  
(a) 789 (b) 890  
(c) 690 (d) 698  
(e) None of these
3. 156, 173, 131, 206, 50, ?  
(a) 321 (b) 89  
(c) 171 (d) 215  
(e) None of these
4. 25, 35, 20, 45, ?  
(a) 32 (b) 21  
(c) 10 (d) 20  
(e) None of these
5. 24, 10, 13, ?, 36  
(a) 8 (b) 10.5  
(c) 12 (d) 14.5  
(e) 16
6. The marked price of a calculator was ₹ 750, A man bought the same for ₹ 550 after getting 2 successive discounts, If the 1st discount is 10% then find the 2nd discount % ?  
(a) 23% (b) 18%  
(c) 21% (d) 15%  
(e) None of these
7. The sum of three numbers is 980. If the ratio between first and second number is 3:4 and that of second and third is 3:7. Find the difference between first and last number.  
(a) 380 (b) 360  
(c) 340 (d) 400  
(e) None of these
8. 3 years ago, the average age of A, B, and C was 27 years. Also 5 years ago, the average age of B and C was 20 years. What is the present age of A?  
(a) 42 (b) 40  
(c) 34 (d) 35  
(e) None of these
9. ₹ 5200 was partly invested in Scheme A at 10% pa CI for 2 years and Partly invested in Scheme B at 10% pa SI for 4 years. Both the schemes earn equal interests. How much was invested in Scheme A ?  
(a) ₹1790 (b) ₹ 2200  
(c) ₹ 3410 (d) ₹ 2670  
(e) None of these
10. The length and breadth of a rectangle are in the ratio 3 : 2. If the length is increased by 5 m keeping the breadth same, the new area of rectangle is 2600 m<sup>2</sup>. What is the breadth of the rectangle?  
(a) 30 m (b) 20 m  
(c) 32 m (d) Cannot be determined  
(e) None of these
11. A jar contains a mixture of two liquids A and B in the ratio 4:1. When 10litres of the mixture is taken out and 10 liters of liquid B is poured into the jar, the ration becomes 2:3. How many liters of liquid A was contained in the jar?  
(a) 14 liters (b) 18 liters  
(c) 16 liters (d) 20 liters  
(e) None of these
12. Two pipes P and Q can fill a tank in 8 hours. If only pipe P is open then it would take 4 hours longer to fill the tank. Find how much longer would it take if only pipe Q is open.  
(a) 16hrs (b) 12hrs  
(c) 10hrs (d) 8hrs  
(e) None of these
13. 3 partners started a business. Twice the investment of A is equal to thrice the capital of B and capital of B is four times the capital of (c). Find the share of B out of profit of ₹ 309100.  
(a) ₹ 102400 (b) ₹ 122400  
(c) ₹ 112400 (d) ₹ 123400  
(e) None of these
14. In an alloy, there is 15% of brass, to get 90 kg of brass, how much alloy is needed ?  
(a) 400 kg (b) 500 kg  
(c) 600 kg (d) 700
15. Two trains are travelling towards each other. The distance between the trains initially is 400km. After some time they meet at a distance of 150 km from one end. Find the ratio of the speed of the trains.  
(a) 2:5 (b) 3:5  
(c) 4:7 (d) 7:3  
(e) 3:7 (f) None of these
16. Ravi's age was one third of his father's 18 years ago. Now he is half the age of his father. What is the difference in the present ages of father and Ravi?  
(a) 72 (b) 36  
(c) 25 (d) 20  
(e) 30
17. ₹ 1200 becomes ₹ 1632 after 4 years. If the rate of interest is increased by 2%, what will be the amount then?  
(a) ₹ 1,890 (b) ₹ 1,844  
(c) ₹ 1,756 (d) ₹ 1,728  
(e) None of these
18. Find the least number which when divided by 15, 21, 24 and 32 leaves the same remainder 2 in each case.  
(a) 3362 (b) 3360  
(c) 3456 (d) 3266  
(e) 3364

19. 10 machines can wash 20 cars in 6 hours. In how many hours can 15 machines wash 40 cars?  
 (a) 8 (b) 7  
 (c) 15 (d) 12  
 (e) 6
20. A box contains 6 blue, 5 green and 4 red balls. If two balls are pick at random, then what is the probability that neither is blue?  
 (a) 10/21  
 (b) 12/35  
 (c) 3/5  
 (d) 11/21  
 (e) None of these

**DIRECTIONS (21-25) :** You have to solve equation I and II, Give answer

- (a) If  $x > y$  (b) If  $x < y$   
 (c) If  $x \leq y$  (d) If  $x \geq y$   
 (e) If  $x = y$  or cannot be established
21. I.  $4x^2 - 19x + 12 = 0$  II.  $3y^2 + 8y + 4 = 0$   
 22. I.  $x^2 = 729$  II.  $y - \sqrt{324} = 781$   
 23. I.  $x^2 + x - 56 = 0$  II.  $y^2 - 17y + 72 = 0$   
 24. I.  $20x^2 - 17x + 3 = 0$  II.  $20y^2 - 9y + 1 = 0$   
 25. I.  $4x^2 - 13x - 12 = 0$  II.  $y^2 - 7y - 60 = 0$

**DIRECTIONS (26-30) :** Refer to the table and answer the given questions. Data related to number of employees in 5 different companies in December, 2015

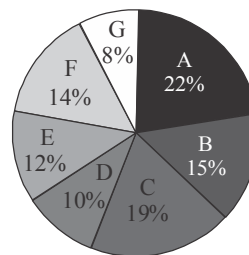
Company	Total number of Employees	Out of total number of employees		
		Percentage of Science Graduates	Percentage of Commerce Graduates	Percentage of Arts Graduates
M	1050	32%	—	—
N	700	—	31%	40%
O	—	30%	30%	—
P	—	—	40%	20%
Q	—	35%	50%	—

- I. Employees of the given companies can be categorised only in three types:  
 Science Graduates, Commerce Graduates and Arts Graduates
- II. Few values are missing in the table (indicated by —). A candidate is expected to calculate the missing value, if it is required to answer the given questions, on the basis of the given data and information.
26. What is the difference between the number of Arts graduate employees and Science Graduates employees in Company N?  
 (a) 87 (B) 89  
 (c) 77 (d) 81  
 (e) 73
27. The Average number of Arts graduate employees and Commerce graduate employees in Company Q was 312. what was the total number of employees in Company Q?  
 (a) 920 (b) 960  
 (c) 1120 (d) 1040  
 (e) 1080
28. If the respective ratio between the number of Commerce graduate employees and Arts graduate employees in Company M was 10:7, what was the number of Arts graduate employees in M?  
 (a) 294 (b) 266  
 (c) 280 (d) 308  
 (e) 322
29. Total number of employees in Company N increased by 20% from December 2012 to 2013, If 20% of the total number of employees in Company N in December, 2013 was science graduates, what was the number of Science graduate employees in Company N in December 2013?  
 (a) 294 (b) 266  
 (c) 168 (d) 252  
 (e) 238
30. Total number of employees in Company P was 3 times the total number of employees in Company O. If the difference between number of Arts graduate employees in Company P and that in Company O was 180, what was the total number of employees in Company O?  
 (a) 200 (b) 1440  
 (c) 720 (d) 900  
 (e) 1080

**DIRECTIONS (31-35):** Study the following pie charts and answer the following questions:

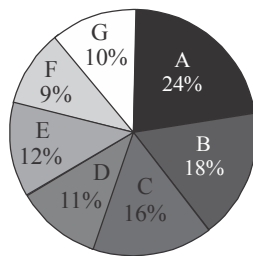
Details of 3000 employees working at different level in the organisation

Employees at different levels (Total = 3000)





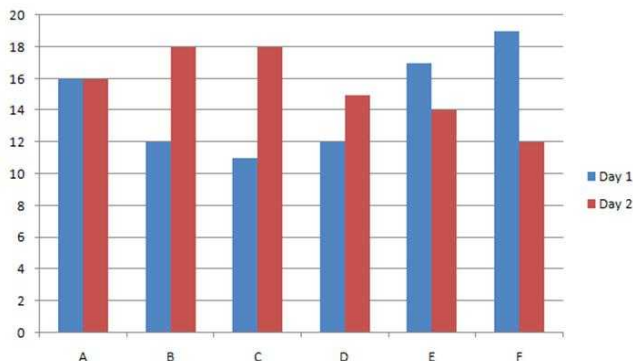
Breakup of males (Total = 1600)



31. How many females are working at level C?  
 (a) 284 (b) 304  
 (c) 314 (d) 324  
 (e) None of these
32. What is the ratio of males to females working at level F?  
 (a) 23:12 (b) 12:27  
 (c) 12:23 (d) 23:27  
 (e) None of these
33. What is the total number of females working at level D and E together?  
 (a) 282 (b) 292  
 (c) 312 (d) 392  
 (e) None of these
34. What is the ratio of female employees working at level D to that of male employees at level G?  
 (a) 31:40 (b) 33:40  
 (c) 40:31 (d) 33:41  
 (e) None of these
35. The number of males employees working in E, F and G level together forms what percent of the total number of employees?  
 (a) 15.53% (b) 16.53%  
 (c) 17.53% (d) 18.53%  
 (e) None of these

**DIRECTIONS (36-40) :** Study the following bar graph and table carefully and answer the following questions given below.

Time taken to travel (in hours) by six vehicles on two different days.



Distance covered by six vehicles on each day

Vehicle	Day 1	Day 2
A	832	864
B	516	774
C	693	810
D	552	765
E	935	546
F	703	636

36. Which of the following vehicles travelled at the same speed on both the days?  
 (a) Vehicle A  
 (b) Vehicle B  
 (c) Vehicle C  
 (d) Vehicle D  
 (e) None of these
37. What was the difference between the speed of vehicle A on day 1 and the speed of the vehicle on the same day?  
 (a) 22 kmph (b) 11 kmph  
 (c) 10 kmph (d) 13 kmph  
 (e) None of these
38. What was the speed (in m/s) of vehicle C on day 2?  
 (a) 12.5 m/s (b) 11.5 m/s  
 (c) 10.5 m/s (d) 9.5 m/s  
 (e) None of these
39. The distance travelled by vehicle F on day 2 was approximately what % of the distance travelled by it on day 1?  
 (a) 90% (b) 95%  
 (c) 94% (d) 98%  
 (e) None of these
40. What is the ratio of speeds of vehicle D and Vehicle E on day 2?  
 (a) 14:15 (b) 17:13  
 (c) 15:16 (d) 13:17  
 (e) 17:15

## Reasoning Ability

**DIRECTIONS (41-45) :** These questions are based on the following five statements. For each question, two conclusions numbered I and II are given. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decided which of the given conclusions logically and definitely follows from the given statements disregarding commonly known facts. Give answer

- (a) If only conclusion I follows.  
 (b) If only conclusion II follows.  
 (c) If either conclusion I or conclusion II follows  
 (d) If neither conclusion I nor conclusion II follows.  
 (e) If both conclusions I and II follow.

**(41-43) :**

Statements :

All Fathers are Brothers.

Some Daughters are not Brothers.

Some Mothers are Daughters.

All Sisters are Brothers.

No Father is a Mother.

41. Conclusion :

I. Some Daughters are not Mothers.

II. Some Mothers are not Sisters.

42. Conclusion :

I. All Brothers if they are Mothers are also necessarily fathers.

II. Some Brothers that are not Mothers are also not Sisters.

43. Conclusion :

I. Some Daughters are not Fathers.

II. Some Daughters that are not Sisters can be Mothers.

**(44-45) :**

Statements :

All Employees are Owners.

No Owner is a Supervisor.

Some Employees are not Managers.

All Managers are Gatekeepers.

Some Supervisor are Managers.

44. Conclusion :

I. Some Managers who are not Supervisor are Employees.

II. Some Supervisor if they are not Gatekeepers are also not Employees.

45. Conclusion :

I. Some Gatekeepers are not Supervisor.

II. Some Gatekeepers that are Supervisor are not Owners.

**DIRECTIONS (46-50) :** Study the following information carefully and answer the questions given below:

Seven marketing managers - A, B, C, D, E, F and H visit market on four days - Tuesday, Wednesday, Friday and Saturday in a week. At least one manager but not more than two managers visit in market on each of these days. Each of them belongs to different Telecom companies - Vodafone, Reliance, BSNL, MTNL, Uninor, Airtel and Idea. D visits on Friday and belongs to MTNL company. The person who belongs to BSNL neither visits on the day Uninor's manager visits nor with E and H. F belongs to Idea and visits alone on Tuesday. B visits on Wednesday and he does not belong to BSNL. C visits on Wednesday, H does not belong to Airtel. The person who belongs to BSNL visit with the person who belongs to Vodafone. The person who belongs to Airtel visits on Friday. A visits on Saturday and belongs to Uninor.

46. The person belongs to which of the following Telecom company visits with the person related to Reliance ?

- (a) Uninor (b) Vodafone  
(c) BSNL (d) Data inadequate  
(e) None of these

47. On which day of the week does E visit?

- (a) Wednesday  
(b) Saturday  
(c) Wednesday or Saturday  
(d) Friday  
(e) None of these

48. Who among them visit the market along with A ?

- (a) None (b) H  
(c) E (d) D  
(e) Either H or D

49. On which day MTNL manager and Airtel manager visit ?

- (a) Wednesday (b) Friday  
(c) Saturday (d) Data inadequate  
(e) None of these

50. With which company does C belong to ?

- (a) BSNL (b) Vodafone  
(c) Uninor (d) Data inadequate  
(e) None of these

51. How many pairs of letters are there in the word UNDERSUBSCRIBED which have number of letters between them in the word two less than the number of letters between them in English alphabet?

- (a) one (b) two  
(c) three (d) four  
(e) more than four

52. The positions of the first and the fifth digits in the number 89123654 are interchanged. Similarly, the positions of the second and the sixth digits are interchanged. And so on. Which of the following will be the second digit from the right end after the rearrangement?

- (a) 9 (b) 8  
(c) 1 (d) 2  
(e) None of these

**DIRECTIONS (53 - 55) :** In each of the following questions, two statements numbered I and II are given. These may to cause and effect relationship between the two statements.

These two statements may be the effect of the same cause or independent causes. These statements maybe independent causes without having any relationship. Read both the statements in each question and mark your answer as:

- (a) If statement I is the cause and II is its effect.  
(b) If statement II is the cause and I is its effect.  
(c) If both the statements I and II are independent causes.  
(d) If both the statements I and II are effects of independent causes.  
(e) If both the statements I and II are effects of some common cause.

53. Statements :

- I. The university has instructed all the colleges under its jurisdiction to ban use of mobile phones inside the college premises.  
II. Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances.

54. Statements :

- I. Most of the steel producing companies in the country have made considerable profit during the last financial year.  
II. Many Asian countries have been importing huge quantities of steel from India.

55. Statements :

- I. The government has recently fixed the fees for professional courses offered by the unaided institutions which are much lower than the fees charged last year.  
II. The parents of the aspiring students launched a severe agitation last year protesting against the high fees charged by the unaided institutions.

**DIRECTIONS (56-60):** Study the information carefully to answer the questions given below.

Eight friends P, Q, R, S, T, U, V and W are sitting around a square table in such a way that four of them sit at four corners while four sit in the middle of each of the four sides. The ones who sit at the four corners face the centre while those who sit in the middle of the sides face outside (i.e., opposite to the centre).

- V sits second to the right of R. R sits in the middle of one of the sides of the table.
  - Only two people sit between V and Q. S is one of the immediate neighbours of Q.
  - T sits second to the left of S.
  - P sits second to the left of U.
  - V is not an immediate neighbour of U.
56. How many people sit between R and T when counted from the right of R ?
- (a) None (b) Four  
(c) One (d) Three  
(e) Two
57. Which of the following is true regarding P ?
- (a) Both T and R are immediate neighbours of P.  
(b) Only three people sit between P and S.  
(c) P sits at middle of one of the sides.  
(d) W sits second to the left of P.  
(e) None of the given options is true
58. What is the position of V with respect to Q ?
- (a) Second to the left  
(b) Third to the left  
(c) Second to the right  
(d) Fifth to the right  
(e) Fifth to the left
59. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group ?
- (a) Q (b) T  
(c) S (d) R  
(e) V
60. Who sits second to the left of W ?
- (a) T (b) U  
(c) V (d) S  
(e) Q
61. Read the given information and answer the question.  
The government of State D was recently criticised for accepting a proposal as per which schools in the State will not conduct exams up to standard nine. Rather, schools will promote all the students up to standard nine and from standard nine onwards the students would either be passed or failed depending upon their marks in the exams. Which of the following may not be a reason for the criticism of the government of State D for accepting the proposal ?
- (a) Several parents have raised concern that students would not be willing to pay attention in class and retain the information because they do not have to write exams.  
(b) Students learn to write exam papers in a stipulated period of time with practice of solving exam papers over the years and many students may not be able to grasp this directly in the standard nine.  
(c) Many teachers are of the opinion that students have become very competitive and are mainly focused on acquiring marks rather than gaining knowledge.

- (d) Studies suggest that students become less prone to exam anxiety and exam fear when they get used to passing exams over the years as compared to when they do not appear for an exam at all.
- (e) Experts suggest that the special needs of children can be adequately assessed through examining of their exam papers and early assessment helps initiate early intervention and major projects through exams.
62. This consists of information and two statements numbered I and II given below it. You have to decide which of the given statements weakens or strengthens the information and decide the appropriate answer.  
Information : Due to increased cases of kidnapping in its vicinity, school M has made it compulsory for parents or legal guardians of the students to give a duly signed authority letter to the person picking up the students from school.
- I. Most working parents rely on their domestic help, for picking up their children from school, who can easily coerced into forging or misusing the authority letter for monetary plans.  
II. There is no photograph on the authority letter making it difficult to identify the person who comes to pick up the child.
- (a) Both statements I and statement II strengthens the information.  
(b) Statement I strengthens the information while statement II weakens the information.  
(c) Both statements I and II weakens the information.  
(d) Both statements I and II are neutral statements.  
(e) Statement I weakens the information while statement II strengthens the information.

**DIRECTIONS (63-67):** Each of the questions given below consists of a question and two statements numbered I and II given below it. You have to decide whether the data given in the statements are sufficient to answer the question or not. Read both statements and choose the most appropriate option.

- (a) The data either in statement I alone or in statement II alone are sufficient to answer the question.  
(b) The data even in both statements I and II together are not sufficient to answer the question.  
(c) The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
(d) The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.  
(e) The data in both statements I and II together are necessary to answer the question.
63. In which month of the year did Rahul go abroad for a vacation?
- I. Rahul correctly remembers that he went for a vacation in the first half of the year.  
II. Rahul's son correctly remembers that he went for a vacation after 31st March but before 1st May.
64. Among friends M, N, O, P, Q and R, who is the second heaviest?
- I. O is heavier than only two friends. P is heavier than O but lighter than N. R is the heaviest.  
II. M is lighter than only two friends. N is heavier than O but lighter than R. P is heavier than only Q.
65. How many marks did Suman score in the twenty-mark exam?
- I. Suman scored two-digit marks and her marks was not in odd numbers.  
II. Suman scored more than 14 but less than 18 marks.



66. Among six people E, F, G, H, I and J standing around a circle facing the centre, what is the position of G with respect to F?
- E stands second to the right of G. Only one person stands between E and I. F is an immediate neighbour of G.
  - Only two people sit between G and H. H is an immediate neighbour of both I and E. F is not an immediate neighbour of I.
67. Who among P, Q, R, S and T is the tallest?
- P is taller than Q. T is not the tallest.
  - R is taller than P. S is not the tallest.

**DIRECTIONS (68-72):** Following questions are based on the five three-digit numbers given below:

519 328 746 495 837

68. If half of the second highest number is subtracted from the third highest number, what will be the value?
- 156
  - 146
  - 213
  - 314
  - None of these
69. If the positions of the first and the third digits in each of the numbers are interchanged, which of the following will be the second digit of the lowest number?
- 1
  - 2
  - 7
  - 9
  - 3
70. If in each number the third digit becomes the first digit, the first becomes the second digit and the second digit becomes the third digit, which of the following will be the first digit of the second highest number?
- 9
  - 6
  - 3
  - 7
  - 8
71. Which of the following represents the difference between the first and of the second highest number?
- 4
  - 1
  - 3
  - 5
  - None of these
72. If '1' is subtracted from the third digit of each number and '1' is added to the first digit of each number, which of the following will be the sum of the second and third digits the second lowest number?
- 13
  - 9
  - 3
  - 5
  - None of these

**DIRECTIONS (73-77):** Study the following information carefully to answer the given questions:

Eight persons from different banks, viz UCO Bank, Syndicate Bank, Canara Bank, PNB, Dena Bank, Oriental Bank of Commerce, Indian Bank and Bank of Maharashtra, are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In row 1: A, B, C and D are seated and all of them are facing south. In row 2: P, Q, R and S are seated and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row. (All the information given above does not necessarily represent the order of seating as in the final arrangement.) C sits second to the right of the person from Bank of

Maharashtra. R is an immediate neighbour of the person who faces the person from Bank of Maharashtra. Only one person sits between R and the person from PNB. The immediate neighbour of the person from PNB faces the person from Canara Bank. The person from UCO Bank faces the person from Oriental Bank of Commerce. R is not from Oriental Bank of Commerce. P is not from PNB. P does not face the person from Bank of Maharashtra. Q faces the person from Dena Bank. The one who faces S sits to the immediate left of A. B does not sit at any of the extreme ends of the line. The person from Bank of Maharashtra does not face the person from Syndicate Bank.

73. Which of the following is true regarding A?

- The person from UCO Bank faces A.
  - The person from Bank of Maharashtra is an immediate neighbour of A.
  - A faces the person who sits second to the right of R.
  - A is from Oriental Bank of Commerce.
  - A sits at one of the extreme ends of the line.
74. Who is seated between R and the person from PNB?
- The person from Oriental Bank of Commerce
  - P
  - Q
  - The person from Syndicate Bank
  - S
75. Who amongst the following sit at extreme ends of the rows?
- D and the person from PNB
  - The persons from Indian Bank and UCO Bank
  - The persons from Dena Bank and P
  - The persons from Syndicate Bank and D
  - C, Q
76. Who amongst the following faces the person from Bank of Maharashtra?
- The person from Indian Bank
  - P
  - R
  - The person from Syndicate Bank
  - The person from Canara Bank
77. P is related to Dena Bank in the same way as B is related to PNB based on the given arrangement. Who amongst the following is D related to, following the same pattern?
- Syndicate Bank
  - Canara Bank
  - Bank of Maharashtra
  - Indian Bank
  - Oriental Bank of Commerce
78. Town D is towards East of town F. Town B is towards North of town D. Town H is towards South of town B. Towards which direction is town H from town F?
- East
  - South-East
  - North-East
  - Data inadequate
  - None of these
79. In a certain code language 'how many goals scored' is written as '5 3 9 7'; 'many more matches' is written as '9 8 2'; and 'he scored five' is written as '1 6 3'. How is 'goals' written in that code language?
- 5
  - 7
  - 5 or 7
  - Data inadequate
  - None of these

80. Ashok started walking towards South. After walking 50 metres he took a right turn and walked 30 metres. He then took a right turn and walked 100 metres. He again took a right turn and walked 30 metres and stopped. How far and in which direction was he from the starting point?
- 50 metres South
  - 150 metres North
  - 180 metres East
  - 50 metres North
  - None of these

## English Language

**DIRECTIONS (Q. 81-90):** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words/phrases are suggested, one of which fits the blank appropriately. Find out the appropriate word/phrase in each case.

Information technology, and the hardware and software (81) with the IT industry, are an (82) part of nearly (83) major global industry. IT industry has become one of the most robust industries in the world. IT, more than any other industry or economic (84), has an increased productivity, particularly in the developed world, and therefore is a key driver of global economic growth. Economies of scale and (85) demand from both consumers and enterprises (86) this rapidly growing sector. The Information Technology Association of America (ITAA) explains 'information technology' as (87) all possible aspects of information systems based on computers. Both software development and the hardware involved in the IT industry include everything from computer systems, to the design, implementation, study and development of IT and management systems. (78) To its easy www.sakshieducation.com www.sakshieducation.com accessibility and the wide range of IT products available, the demand for IT services has increased (89) over the years. To IT sector has emerged as a major global (90) of both growth and employment.

81. (a) use (b) amalgamation  
(c) associated (d) vision  
(e) regulated
82. (a) integral (b) fundamental  
(c) increased (d) vital  
(e) eager
83. (a) most (b) all  
(c) every (d) few  
(e) some
84. (a) world (b) opinion  
(c) stature (d) profit  
(e) facet
85. (a) multiply (b) insatiable  
(c) decreasing (d) unquenchable  
(e) unreasonable
86. (a) forage (b) thwart  
(c) motivate (d) fuelling  
(e) characterise
87. (a) making (b) qualifying  
(c) inclusive (d) encompassing  
(e) trusting

88. (a) Owing (b) Since  
(c) Catering (d) In order  
(e) Complementing
89. (a) regularly (b) substantially  
(c) minimally (d) exponential  
(e) savagely
90. (a) fortune (b) meltdown  
(c) spring (d) source  
(e) economy

**DIRECTIONS (Q. 91-95):** Which of the phrases (1), (2), (c) and (d) given below each sentence should replace the word/phrase printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark (e) as the answer.

91. The actress, who was in the city for the press conference of her dance reality show, says she choose the show because of her passionate for dance.  
(a) being passion in dance  
(b) passionate for dancing  
(c) being passionate in dancing  
(d) passion for dance  
(e) No correction required
92. Despite of several representations and reminders, the district administration had not taken any action to stem the systematic encroachment of water bodies.  
(a) Because of (b) Dispite \  
(c) Although (d) In spite  
(e) No correction required
93. While it is well-known that there are large-scale leakages from the public distribution system across the country, there are many states which have manage successful reform the public distribution system and deliver food grain to the poor.  
(a) managed to successfully reform  
(b) managed successful reforms  
(c) managing successfully to reform  
(d) managing successfully reforming  
(e) No correction required
94. The four-day workshop is being conducted for gear up administration to the changes that will follow with the implementation of the Right to Compulsory and Free Education Act 2009.  
(a) so geared up (b) to gear up  
(c) for geared up (d) to gearing up  
(e) No correction required
95. The court refused to provide relieve to the petitioner and stated that plying of al diesel vehicles was banned with immediate effect.  
(a) provision of relief (b) providing of relieve  
(c) provide any relief (d) provide relieving  
(e) No correction required

**DIRECTIONS (Q. 96-100):** Rearrange the following six sentences A, B, C, D, E and F in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- A. Buildings of these structures required a lot of fuel to be burnt which emits a large amount of carbon dioxide in the atmosphere.

- B. The major source of carbon dioxide is power plants.  
 C. Another twenty percent of carbon dioxide emitted in the atmosphere comes from burning of gasoline in the engines of vehicles.  
 D. Buildings, both commercial and residential represent a larger source of global warming pollution than the said cars and trucks.  
 E. The major cause of global warming is the emission of green house gases like carbon dioxide, methane, nitrous oxide, etc, into the atmosphere.  
 F. These power plants emit large amounts of carbon dioxide produced from burning of fossil fuels for the purpose of electricity generation.
96. Which of the following should be the SECOND sentence after rearrangement?  
 (a) E (b) D (c) C  
 (d) B (e) A
97. Which of the following should be the THIRD sentence after rearrangement?  
 (a) A (b) B (c) C  
 (d) D (e) F
98. Which of the following should be the FIRST sentence after rearrangement?  
 (a) A (b) B (c) C  
 (d) D (e) E
99. Which of the following should be the SIXTH sentence after rearrangement?  
 (a) A (b) B (c) C  
 (d) D (e) E
100. Which of the following should be the FOURTH sentence after rearrangement?  
 (a) E (b) D (c) C  
 (d) B (e) A

**DIRECTIONS (Q. 101-105):** Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank which best fits the meaning of the sentence as a whole.

101. The protests were \_\_\_\_\_ at \_\_\_\_\_ awareness among the elite and the educated.  
 (a) held, generating  
 (b) aimed, creating  
 (c) targeted, awakening  
 (d) focused, building  
 (e) concentrated, producing
102. While it is \_\_\_\_\_ possible to inflation-index cash entitlements and food stamps, the \_\_\_\_\_ nature of food prices would make it a more difficult process than envisaged.  
 (a) theoretically, volatile  
 (b) absolutely, stable  
 (c) hypothetically, slow  
 (d) not, unpredictable  
 (e) notionally, established
103. The actress is \_\_\_\_\_ that she has not only acted opposite her childhood hero, but has also \_\_\_\_\_ out a song and recited a poem on-stage with the living legend.  
 (a) overjoyed, belted (b) morose, sung  
 (c) ecstatic, written (d) tense, prepared  
 (e) elated, made

104. \_\_\_\_\_ to popular belief that red meat makes humans \_\_\_\_\_ scientists have found that it actually has a calming effect.  
 (a) dissimilar, happy  
 (b) opposite, intelligent  
 (c) contrary, aggressive  
 (d) comparable, hostile  
 (e) sticking, violent
105. \_\_\_\_\_ an earlier judgment, the high court has directed the state government to identify natural water resources in the state and \_\_\_\_\_ all illegal encroachments on them.  
 (a) remembering, establish  
 (b) citing, remove  
 (c) cancelling, build  
 (d) quoting, destroying  
 (e) furthering, maintain

**DIRECTIONS (Q.106-110):** Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error, if any, will be in one part of the sentence, the number of that part is the answer. If there is no error, the answer is (e).

(Ignore errors of punctuation, if any)

106. Dress in black (a)/ several students from the university took part (b)/ in a protest march in the city on Thursday as part (c)/ of a campaign against female infanticide. (d)/ No error (e)
107. On the second day of the workshop, (a)/ participants does a situational analysis of the state (b)/ and spoke about their plan of action (c)/ for implementing the Act. (d)/ No error (e)
108. The court has asked the authorities (a)/ to take appropriate steps to restore natural water resources (b)/ so that the water shortage problem (c) / in the state can be solved. (4)/ No error (5)
109. The poor experience in (a) / neighboring countries which have implemented (b) / food stamp programmes should serve as (c)/ a deterrent on our country. (d)/ No error (e)
100. The government has warned (a)/ that air pollution from vehicles and power stations (b)/ is reducing life expectancy in the country (c) / in an average of six months. (d)/ No error (e)

**DIRECTIONS (Q. 111-115):** Read the following passage carefully and answer the questions given below it. Certain words / phrases have been printed in bold to help you locate them while answering some of the questions.

The modern world requires us to repose trust in many anonymous institutions. We strap ourselves in a flying tin can with two hundred other people not because we know the pilot but because we believe that airline travel is safe. Our trust in these institutions depends on two factors: skills and ethics. We expect that the people who run these institutions know what they are doing, that they build and operate machines that work as they are supposed to and that they are looking out for our welfare even though we are strangers. When one of these factors is weak or absent, trust breaks down and we either pay a big price in safety – as in the Bhopal tragedy – or a large ‘welfare premium’ such as the elaborate security measures at airports. Trust - deficient environments work in the favour of the rich and powerful, who can command premium treatment and afford welfare premiums. Poor people can command



neither, which is why air travel is safer than train travel, which in turn is safer than walking by the road side. Every modern society depends on the trust in the skills and ethics of a variety of institutions such as schools and colleges, hospitals and markets. If we stopped believing in the expertise of our teachers, doctors and engineers, we will stop being a modern society.

As the institution among institutions, it is the duty of the state to ensure that all other institutions meet their ethical obligations. The 'Indian state has failed in its regulatory role'. Consequently, we cannot trust our schools to turn out good graduates, we cannot ensure that our colleges turn out well trained engineers and we cannot graduate that our engineers will turn out to be good products. Last year, I was invited to speak at an undergraduate research conference. Most of the participants in this conference were students at the best engineering colleges in the State. One student who was driving me back and forth recounted a story about the previous year's final exam. One of his papers had a question from a leading textbook to which the textbook's answer was wrong. The student was in a dilemma: should he write the (wrong) answer as given in the textbook or should he write the right answer using his own analytical skills. He decided to do the latter and received a zero on that question. Clearly, as the student had suspected, the examiners were looking at the textbook answer while correcting the examination papers instead of verifying its correctness.

The behaviour of these examiners is a breakdown of institutional morals, with consequences for the skills acquired by students. I say institutional morals, for the failure of these examiners is not a personal failure. At the same conference! met a whole range of college teachers, all of whom were drafted as examiners at some time or the other. Without exception, they were dedicated individuals who cared about the education and welfare of their students. However, when put in the institutional role of evaluating an anonymous individual, they fail in fulfilling their responsibilities. When some of our best colleges are run in this fashion, is it any wonder that we turn out unskilled engineers and scientists? If, as we are led to expect, there is a vast increase in education at all levels and the regulatory regime is as weak as it is currently, isn't it likely that the trust deficit is only going to increase?

We are all aware of the consequences of ignoring corruption at all levels of society.

While institutional failures in governance are obvious, I think the real problem lies deeper, in the failure of everyday institutions that are quite apart from institutions that impinge on our lives only on rare occasions. It is true that our lives are made more miserable by government officials demanding bribes for all sorts of things, but what about the everyday lying and cheating and breaking of rules with people who are strangers?

Let me give you an example that many of us have experienced. I prefer buying my fruits and vegetables from roadside vendors rather than chain stores. To the vendor, I am probably an ideal customer, since I do not bargain and I do not take hours choosing the best pieces, instead, letting the vendor do the selecting. The market near my house is quite busy; as a result, most vendors are selling their wares to strangers. It takes a while before a particular vendor realises that I am a repeat simple rule: if a vendor palms off a bad piece

whose defects are obvious, I never go back to that person again. It is amazing how often that happens. In my opinion, the failure of institutional ethics is an much about these little abuses of trust as anything else. Everyday thievery is like roadside trash, if you let it accumulate the whole neighbourhood stinks.

111. What is the meaning of the phrase 'palms off' as used in the passage?
- steals from
  - hides away from
  - buys quickly
  - acquires a good price for
  - passes on by deception
112. Why, according to the author, do people repose trust in institutions they do not know?
- The marketing strategies adopted by these institutions make them trustworthy in the eyes of the public
  - Many other people before them have done the same thing thus they feel safe
  - People learn from the experiences of their richer counterparts who have availed of the services of these institutions
  - They believe that these institutions have the requisite knowledge and will act only in favour of the general public
  - These institutions charge a very high price for the services they provide which leads people to trust them
113. Why, according to the author, is the behaviour of examiners a breakdown of institutional morals?
- As the institution encourages examiners to give as little marks to students as possible
  - As the institution is responsible for not encouraging examiners to venture outside the rote process
  - As the examiners are told to discourage students from being creative by the institution
  - As the institution fails to provide adequate compensation to these hardworking examiners
  - As the institution does not have information regarding right answers with it.
114. Which of the following is possibly the most appropriate title for the passage?
- Modifications in institutional ethics
  - Little deductions add to larger trust –Deficit
  - India – A country without ethics
  - Failure of the government
  - College – As an institution
115. Which of the following is not true in the context of the passage?
- Despite being aware of the fact that clients will not return, fruit and vegetable vendors sell bad goods.
  - Examiners are devoted to their jobs.
  - Examiners deliberately mark correct answers as incorrect ones.
- Only A and C
  - Only B
  - Only A
  - Only B and C
  - Only C

**DIRECTIONS (Q.116-117):** Choose the word/group of words which is most similar in meaning to the word / group of words printed in bold as used in the passage.

116. Obligation
- Responsibility
  - Dependability
  - Compulsion
  - Debt
  - Force



117. Expertise  
 (a) Proficiency (b) Authenticity (c) Inability  
 (d) Power (e) Reality

**DIRECTIONS (Q. 118-120):** Choose the word / group of words which is most opposite in meaning the word /group of words printed in bold as used in the passage.

118. Repeat  
 (a) Copied (b) Original (c) New  
 (d) Duplicate (e) Replicated
119. Unskilled  
 (a) Civilised (b) Enlightened (c) Amateur  
 (d) Trained (e) Cultured
120. Miserable  
 (a) Despondent (b) Energetic (c) Dynamic  
 (d) Vigorous (e) Joyous

## Computer Knowledge

121. Are we building the right product? This statement refers to  
 (a) Verification (b) Validation  
 (c) Testing (d) Software quality assurance  
 (e) None of these
122. BCC in the Email refer to  
 (a) Blind Carbon Copy (b) Black Carbon Copy  
 (c) Blank Carbon Copy (d) Blue Carbon Copy  
 (e) None of these
123. Which of the following is the correct use of Buffer or Block caches?  
 (a) Improve disk performance  
 (b) Handle interrupts  
 (c) Increase the capacity of main memory  
 (d) Speed up main memory read operations  
 (e) None of these
124. The principal electronic payment systems for electronic commerce is  
 (a) Credit card  
 (b) Digital wallet  
 (c) Electronic cheque  
 (d) All of the above  
 (e) None of these
125. \_\_\_\_\_ allows wireless mobile device to access the internet and its services such as the web and email.  
 (a) TCP (b) Ethernet  
 (c) WAP (d) Token ring  
 (e) None of these
126. The conversion of electronic data into another form is called-  
 (a) Biometrics (b) Encryption  
 (c) Compression (d) Encapsulation  
 (e) None of these
127. Which of the following protocol have file edit capability in remote logging?  
 (a) FTP (b) TFTP  
 (c) Telnet (d) SMTP  
 (e) None of these
128. Grammar of the programming is checked at which phase of compiler?  
 (a) Semantic analysis (b) Syntax analysis  
 (c) Code generation (d) Code optimization  
 (e) None of these
129. End to End connectivity is provided from which of the following layer?  
 (a) Network layer  
 (b) Session layer  
 (c) Transport layer  
 (d) Data link layer  
 (e) None of these
130. In which generation of computer, Integrated Circuit was introduced?  
 (a) First Generation  
 (b) Second Generation  
 (c) Third Generation  
 (d) Fourth generation  
 (e) Fifth Generation
131. What is called the sharing of a medium and its path by 2 or more devices?  
 (a) Multiplexing (b) Multiprocessing  
 (c) Multi-operating (d) Multitasking  
 (e) Multi-sharing
132. What is used to save a document in different locations?  
 (a) Save (b) Save as  
 (c) Insert (d) Enter  
 (e) New
133. What is the full form of 'RAID'?  
 (a) Random Access of Inexpensive disks  
 (b) Redundant Array of Inexpensive data  
 (c) Random Array of Inexpensive data  
 (d) Random Array of Internet data  
 (e) Redundant Array of Inexpensive disks
134. The combination of ALU and Control Unit jointly known as  
 (a) Hard disk (b) Monitor  
 (c) CPU (d) UPS  
 (e) Software
135. What is called, a concentric circle on a disk?  
 (a) Sector (b) Track  
 (c) Section (d) Arc  
 (e) Directory
136. Which key launched the start button?  
 (a) Windows (b) Esc  
 (c) Shift (d) Function key  
 (e) Num lock
137. A computer professional who writes and tests software are called a  
 (a) software consultant  
 (b) librarian  
 (c) hardware consultant  
 (d) computer operator  
 (e) data entry operator
138. Which function key is used to refresh the current window?  
 (a) F1 (b) F5  
 (c) F3 (d) F6  
 (e) F4
139. Which of the following is the first graphical web browser?  
 (a) MSN (b) Mozilla  
 (c) Chrome (d) Mosaic  
 (e) Internet explorer
140. JPEG stands for -  
 (a) Joint Photographic Expert group  
 (b) Joint Photographic Expert graphics  
 (c) Join Photographic Expert group  
 (d) Join Photographic Expert graphics  
 (e) None of these

141. 1000000 bytes =?  
(a) TB (b) KB  
(c) MB (d) GB  
(e) None of these
142. A software that is used to create text based documents is called \_\_\_\_\_  
(a) DBMS (b) Spreadsheet  
(c) Word Processor (d) Presentation Software  
(e) None of these
143. Which of the following houses the most important parts of a computer system?  
(a) Input Device  
(b) Client  
(c) Server  
(d) Hardware  
(e) None of these
144. ICMP stands for \_\_\_\_\_  
(a) Internet Communication Message Protocol  
(b) Internal Communication Message Protocol  
(c) Internal Control Message Protocol  
(d) Internet Control Message Protocol  
(e) Intranet Control Message Protocol
145. Restarting a computer that is already on is referred to as \_\_\_\_\_  
(a) Booting (b) Cold boot  
(c) Warm boot (d) Shut down  
(e) None of these
146. ICMP used for \_\_\_\_\_  
(a) Forwarding (b) Addressing  
(c) Multicasting (d) Error Reporting  
(e) None of these
147. Which is used to change the text in Microsoft Word from uppercase to lowercase or a capital letter at the beginning of every word?  
(a) Shift + F3 (b) Shift + F4  
(c) Shift + F5 (d) Shift + F7  
(e) Shift + F6
148. Which of the following shortcut key is used to insert the current date?  
(a) Shift + Alt + T  
(b) Shift + Alt + D  
(c) Ctrl + Alt + T  
(d) Ctrl + Alt + D  
(e) Shift + Ctrl + T
149. An email account includes a storage area, often called \_\_\_\_\_  
(a) Attachment (b) Font  
(c) Hyperlink (d) browser  
(e) Mailbox
150. Which of the following is not associated with Browsers?  
(a) Opera (b) Chrome  
(c) Firefox (d) Yahoo  
(e) UC Browser
151. Which of the following is the valid domain name extension?  
(a) .edu (b) .org  
(c) .com (d) .net  
(e) All of these
152. which of the following is a large and expensive, computer capable of simultaneously processing data for hundreds or thousands of users?  
(a) Handheld Computer  
(b) Tablet  
(c) Personal Computer  
(d) Mainframe Computer  
(e) None of these
153. Which of the following type of computer could be found in a digital watch?  
(a) Handheld Computer  
(b) Tablet  
(c) Personal Computer  
(d) Mainframe Computer  
(e) Embedded Computer
154. Which of the following software could assist someone who cannot use their hands for computer input?  
(a) Synthesizer  
(b) Speech Recognition  
(c) Audio Digitizer  
(d) Video Conferencing  
(e) None of these
155. UNIX Operating System is typically used for \_\_\_\_\_  
(a) Laptop (b) Web servers  
(c) Tablet (d) PC  
(e) None of these
156. To access a mainframe or super computer, users need \_\_\_\_\_  
(a) Node (b) Laptop  
(c) Tablet (d) CPU  
(e) Terminal
157. Which is designed to reorganize noncontiguous files into contiguous files and optimize their placement on the hard drive?  
(a) Backup (b) Restore  
(c) Disk Cleanup (d) Disk Defragmenter  
(e) None of these
158. Which of the following is the process of extracting large amount of information from a website?  
(a) Trackback (b) Spoofing  
(c) SYN Flood (d) Scraping  
(e) None of these
159. Which is a small hardware device that joins multiple computers together within one LAN?  
(a) Network Interface Card  
(b) Switch  
(c) Bridge  
(d) Router  
(e) None of these
160. It is the process in which control information is added to a data packet as it moves through the layers of a communication module is termed as \_\_\_\_\_  
(a) Encapsulation (b) Encryption  
(c) Decryption (d) Coding  
(e) None of these

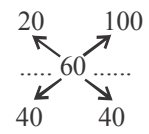
## Genaeral Knowledge

161. Abdel Fattah Al-Sisi arrived in India on September 1st 2016 with an aim to step up engagement in areas of security, counter-terrorism and trade. Who is he ?  
 (a) Prime Minister of Saudi Arabia  
 (b) Kyrgyzstan President  
 (c) Israel President  
 (d) Egyptian President  
 (e) None of these
162. Government planned to double the number of schemes under DBT to \_\_\_\_\_ by March 2017 for paying subsidy directly via bank accounts of beneficiaries.  
 (a) 147 (b) 157  
 (c) 167 (d) 177  
 (e) None of these
163. Who has been appointed as the appointed MD and CEO of Bank of Maharashtra in September 2016 ?  
 (a) P. Srinivas  
 (b) Pawan kumar Bajaj  
 (c) Sushil Muhnot  
 (d) Ravindra Prabhakar Marathe  
 (e) None of these
164. The world largest temple 'Yazidi temple' is situated in which country ?  
 (a) Tasmania (b) Romania  
 (c) Armenia (d) Russia  
 (e) None of these
165. Who has become the Nepal Prime Minister for the second time by after signing pact with Madhesis?  
 (a) Sheikh Hasina (b) Tshering Tobgay  
 (c) Pushpa Kamal Dahal (d) Li Keqiang Dahal  
 (e) None of these
166. According to 2016-17 budget, What is the current FDI limit of NBFC sector ?  
 (a) 51% (b) 49%  
 (c) 74% (d) 100%  
 (e) None of these
167. Asian games for the year 2022 is scheduled to be held in which country ?  
 (a) Hangzhou, China (b) Jakarta, Indonesia  
 (c) Durban, South Africa (d) London, England  
 (e) None of these
168. Hindustan Copper Limited inaugurated India's first nickel production facility in \_\_\_\_\_ on August 10, 2016  
 (a) Odisha (b) Jharkhand  
 (c) Rajasthan (d) Nagaland  
 (e) None of these
169. In June 2016, India and United States signed for Four Poseidon- 8I Longrange Surveillance and antisubmarine warfare aircraft. The amount of the deal is  
 (a) \$3 billion (b) \$4 billion  
 (c) \$1 billion (d) \$2 billion  
 (e) None of these
170. Which mobile application has been launched by Karnataka Bank Limited built on the Unified Payments Interface platform of the NPCI?  
 (a) empower (b) SMARTZ  
 (c) MobiEase (d) mPay  
 (e) None of these
171. Ministry of Environment Forest and Climate change run Wildlife Institute of India (WII) will establish repository on tigers, under its new Tiger Cell in which City?  
 (a) Lucknow (b) Dehradun  
 (c) Varanasi (d) Kanpur  
 (e) None of these
172. India positioned to which rank in World Economic Freedom Index according to the Economic Freedom of the World 2016 Annual Report?  
 (a) 111 (b) 113  
 (c) 112 (d) 114  
 (e) None of these
173. India's first interState river interlinking project Ken-Betwa project is located within a which tiger reserve ?  
 (a) Jim Corbett Tiger Reserve  
 (b) Panna Tiger Reserve  
 (c) Mana Tiger reserve  
 (d) Bor Tiger Reserve  
 (e) None of these
174. Who has been appointed as UPSC Chairman by President Pranab Mukherjee from September 2016?  
 (a) Alka Sirohi (b) Deepak Gupta  
 (c) Atul Silvaya (d) Mukesh Sharma  
 (e) None of these
175. PM Narendra Modi launched "Urja Ganga", 1500 km long gas pipeline project which costing Rs 51,000 crore to provide piped cooking gas to residents of which place within two years?  
 (a) Nagpur (b) Pune  
 (c) Bareilly (d) Varanasi  
 (e) None of these
176. Islamic Development Bank to open its first branch in which city of India?  
 (a) Mumbai (b) Patna  
 (c) Ahmedabad (d) Pune  
 (e) None of these
177. The central government issued Treasury bills to fulfil which requirements of banks?  
 (a) CLR (b) SLR  
 (c) MSF (d) RRR  
 (e) None of these
178. Which state High Court has ordered a complete ban on the sale of whitener in the state in October 2016?  
 (a) Uttarakhand (b) J & K  
 (c) Himachal Pradesh (d) Madhya Pradesh  
 (e) None of these
179. Which country recently elected as 39th Associate Member of as the International Cricket Council's (ICC)?  
 (a) Saudi Arabia (b) Zambia  
 (c) Kenya (d) Uganda  
 (e) None of these

180. Name the online complaint box unveiled by Union Minister for Women and Child Development for reporting child sexual abuse in New Delhi?  
 (a) POCCO e-box (b) POCOS e-box  
 (c) PSCO e-box (d) PUCOS e-box  
 (e) None of these
181. Andhra Pradesh has become the second state in the country to achieve 100 per cent electrification of households. Which state achieved this target first in India ?  
 (a) Gujarat (b) Kerala  
 (c) Maharashtra (d) Goa  
 (e) None of these
182. The Research Centre Imarat (RCI) recently in news. The centre is located in which city ?  
 (a) Sriharikota (b) Hyderabad  
 (c) Chandipur (d) Bengaluru  
 (e) None of these
183. Who has been conferred with prestigious Mother Teresa International Award 2016?  
 (a) Edwin Britto (b) Al Nahyan  
 (c) Sayed Iqbal Haider (d) Ansar Burney  
 (e) None of these
184. The maturity period of Public provident fund (PPF) account is how many years ?  
 (a) 15 years (b) 7 years  
 (c) 10 years (d) 5 years  
 (e) None of these
185. India has been elected as the chair for the year \_\_\_\_\_ by the Gem & Jewellery Export Promotion Council (GJEPC) for Kimberly Process (KP) Certificate Scheme.  
 (a) 2017 (b) 2019  
 (c) 2018 (d) 2020  
 (e) 2016
186. Every year world cancer day is observed on which date ?  
 (a) February 4 (b) January 14  
 (c) December 28 (d) November 17  
 (e) None of these
187. The central government launched Pradhan Mantri Ujjwala Yojana is a scheme for \_\_\_\_\_  
 (a) Irrigation  
 (b) Rural Development  
 (c) Social welfare programme  
 (d) Financial Inclusion
188. In the shift code which position character represents location?  
 (a) First 4 character (b) 5th & 6th characters  
 (c) Last 2 characters (d) 7th & 8th character  
 (e) None of these
189. Who is the winner of the Delhi Half Marathon in men's race?  
 (a) Deriba Merga (b) Edwin Kipyega  
 (c) Guye Adola (d) Eliud Kipchoge  
 (e) None of these
190. Which country has launched the world's longest secure quantum communication line?  
 (a) China (b) Japan  
 (c) USA (d) Russia  
 (e) None of these
191. Hindi has emerged as the 10th most powerful language on the planet according to the World Economic Forum's Power Language Index Ranking. Which language has been ranked as the most powerful?  
 (a) English (b) French  
 (c) Mandarin (d) Korean  
 (e) None of these
192. The letter 'C' denotes \_\_\_\_\_ in CRAR  
 (a) Current (b) Core  
 (c) Credit (d) Capital  
 (e) None of these
193. Which state won the Better Performing Project Award 2015 for the development of infrastructure by tourism department under the ADB Funded Project?  
 (a) Andhra Pradesh (b) Arunachal Pradesh  
 (c) Himachal Pradesh (d) Madhya Pradesh  
 (e) Uttar Pradesh
194. Which Bank has partnered with Flipkart to launch 'Buzz Credit Card' for its for online shoppers?  
 (a) Bank of Baroda (b) SBI  
 (c) ICICI Bank (d) Axis Bank  
 (e) South Indian Bank
195. Which bank announced that it had entered into agreements with private insurers Cigna TTK and Reliance General Insurance to provide health and general insurance services to its customers?  
 (a) Tamilnadu Merchantile Bank  
 (b) Bank of Baroda  
 (c) Maharashtra Bank  
 (d) Andhra Bank  
 (e) None of these
196. Who has been appointed as a Chairperson of Insolvency and Bankruptcy Board of India for a period of five years?  
 (a) Madan Kumar (b) Madhusudan Sahoo  
 (c) Manish Goyal (d) Mohan Das  
 (e) None of these
197. Which zone started by the Tamilnadu Chief Minister Jayalalitha in 50 places across Tamilnadu on September 23, 2016?  
 (a) Amma Free Ice cream (b) Amma Free Water  
 (c) Amma Free Coffee (d) Amma Free Wi-Fi  
 (e) Amma Free Education
198. Russia partnered with which country to conduct their first ever joint military exercise called Friendship 2016?  
 (a) Afghanistan (b) China  
 (c) Sri Lanka (d) Pakistan  
 (e) USA
199. Which country for the first time deployed a robot to maintain security at one of its busiest airports?  
 (a) Japan (b) Sweden  
 (c) Singapore (d) China  
 (e) India
200. Where is the head quarter of United Nations Organization (UN) \_\_\_\_\_.  
 (a) New York, US (b) Washington DC, US  
 (c) Manila, Philippines (d) Geneva, Switzerland  
 (e) None of these

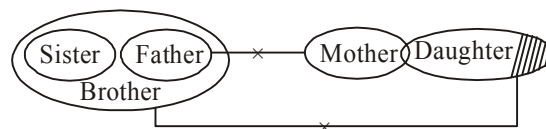


# HINTS & SOLUTIONS

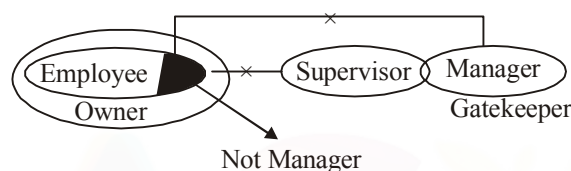
1. (b)
2. (c)  $5 \times 1 + 2 = 7$   
 $7 \times 2 - 4 = 10$   
 $10 \times 3 + 6 = 36$   
 $36 \times 4 - 8 = 136$   
 $136 \times 5 + 10 = 690$
3. (d)  $156 + 17 \times 1 = 173$   
 $173 - 21 \times 2 = 131$   
 $131 + 25 \times 3 = 206$   
 $206 - 29 \times 4 = 50$   
 $50 + 33 \times 5 = 215$
4. (c)  $25 + 5 \times 2 = 35$   
 $35 - 5 \times 3 = 20$   
 $20 + 5 \times 5 = 45$   
 $45 - 5 \times 7 = \boxed{10}$
5. (d) 14.5  
 $24 \times 0.5 - 2 = 10$   
 $10 \times 1 + 3 = 13$   
 $13 \times 1.5 - 5 = 14.5$   
 $14.5 \times 2 + 7 = 36$
6. (b)  $750 \times 10/100 = 75$   
 After 1st discount Price =  $750 - 75 = 675$   
 2nd Discount =  $(675 - 550) \times 100/675 = 18.51\% = 18\%$
7. (a) Ratio between three numbers = 9:12:28  
 $49x = 980$ ,  
 $x = 20$  Difference between number =  $19 \times 20 = 380$
8. (b) Sum of ages of A + B + C  
 3 yrs ago =  $27 \times 3 = 81$   
 So after 3 yrs, i.e. at present their total =  $81 + 3 \times 3 = 90$   
 Similarly sum of present age of B C =  $20 \times 2 + 5 \times 2 = 50$   
 So present age of A =  $90 - 50$
9. (c) Amount invested in Scheme B = x  
 Amount invested in Scheme A =  $5200 - x$   
 $x \times 10 \times 4/100 = (5200 - x) \times 21/100 \dots [(1 - 10/100)^2 - 1]$   
 $= 21/100$   
 $40x/100 = (5200 - x) \times 21/100$   
 $2x/5 = (5200 - x) \times 21/100$   
 $200x = 5200 \times 21 \times 5 - x \times 5 \times 21$   
 $200x = 546000 - 105x$   
 $305x = 546000$   
 $x = 1790$   
 Scheme A =  $5200 - 1790 = 3410$
10. (b) Let the length and Breadth are 3x, 2x  
 $(3x + 5) \times 2x = 2600$   
 $6x^2 + 10x = 2600$   
 $3x^2 + 5x - 1300 = 0$   
 $3x^2 - 60x + 65x - 1300 = 0$   
 $3x(x - 20) + 65(x - 20) = 0$   
 Solve,  $x = 20$   
 So, breadth = 20 m
11. (c) % of B in the original mix =  $1/5 \times 100 = 20\%$   
 In final mix =  $3/5 \times 100 = 60\%$   
  
 Total mix =  $10 + 10 = 20$  liters  
 so qty. of A =  $20/5 \times 4$
12. (a)  $P = 8 + 4 = 12$   
 $P + Q = 1/8$   
 $Q = 1/8 - 1/12 = 3 - 2/24 = 1/24$   
 $Q = 24$   
 $Q \text{ alone} = 24 - 8 = 16$
13. (c)  $C = x, B = 4x$   
 $2(\text{A's capital}) = 3(\text{B's capital}) = 3 \times 4x$   
 $\text{A's capital} = (3 \times 4x / 2) = 6x$   
 Ratio : 6 : 4 : 1  
 $\text{B's share} = 4/11 \times 309100$
14. (c) Let X kg of alloy is needed. So,  $15/100$  of  $X = 90$ . So  $X = 600$  kg
15. (b) At some time T they meet each other so,  
 $150/a = 250/b$  (a and b are the speeds of the train respectively)  
 So,  $a:b = 3:5$
16. (b) Ravi's present = x, father's =  $2x$   
 Then,  $(2x - 18) = 3(x - 18)$   
 Solve,  $x = 36$   
 So difference =  $2x - x = x = 36$
17. (d) Increase in interest in 4 yrs with rate 2%  
 $= 1200 \times 4 \times 2/100 = 96$   
 So amount =  $1632 + 96 = 1728$
18. (a) It will be the LCM of these numbers + 2  
 So  $3360 + 2$
19. (a) Washing cars is a work, so  
 $M_1 \times H_1 \times W_2 = M_2 \times H_2 \times W_1$   
 $10 \times 6 \times 40 = 15 \times H_2 \times 20$   
 Solve,  $H_2 = 8$  hrs
20. (b) Total balls = 15  
 Not blue means green or red i.e. any of  $(5+4) = 9$  balls  
 So prob. =  $\frac{{}^9C_2}{{}^{15}C_2} = \frac{12}{35}$
21. (a) If  $x > y$   
 $(x - 4)(4x - 3) = 0$   
 $x = 4, 3/4$   
 $(y + 2)(3y + 2) = 0$   
 $y = -2, -2/3$   
 $4, 3/4, -2/3, -2$   
 $\therefore x > y$
22. (d) If  $x \leq y$   
 $x = \pm 27$   
 $y = 9 + 18 = 27$   
 $\therefore x \leq y$
23. (b)
24. (c) If  $x \geq y$   
 $(4x - 1)(5x - 3) = 0$   
 $x = 1/4, 3/5$   
 $(4y - 1)(5y - 1) = 0$   
 $y = 1/4, 1/5$   
 $3/5, 1/4, 1/4, 1/5$   
 $x \geq y$
25. (e) If  $x = y$  or cannot be established  
 $(x - 4)(4x + 3) = 0$   
 $x = 4, -3/4$   
 $(x + 5)(x - 12) = 0$   
 $y = 12, -5$

26. (c) Number of Arts graduate employees  
= 40% of 700 = 280  
Number of Science Graduates employees  
= 29% of 700 = 203  
Difference = 280 - 203 = 77
27. (b) Average number of Arts graduate employees and Commerce graduate employees in Company Q = 312  
Total no of Arts graduate employees and Commerce graduate employees in Company Q = 624  
Total number of employees in Company Q = X  
 $X = 624 \times (100/65) = 960$
28. (a) Number of Science Graduate employees  
= 32% of 1050 = 336  
Number of Commerce Graduate employees and Arts graduate employees = 1050 - 336 = 714  
Number of Arts graduate employees in M  
=  $714 \times (7/17) = 294$
29. (c) Total number of employees in Company N in 2013 = 840  
Science graduate employees in Company N in December 2013 = 20% of 840 = 168
30. (d) Total number of employees in Company P = 3 times the total number of employees in Company O.  
 $40\% - 20\% = 180$   
 $20\% = 180$   
Total number of employees in Company o  
=  $360 \times (100/40) = 900$
31. (c) Total working at level C =  $3000 \times 19/100 = 570$   
males working at level C =  $1600 \times 16/100 = 256$   
so females working at level C =  $570 - 256 = 314$
32. (c) Total employees at level F =  $3000 \times 14/100 = 420$   
males =  $1600 \times 9/100 = 144$   
females =  $420 - 144 = 276$   
ratio =  $144/276 = 12/23$
33. (b) Females in D =  $3000 \times 10/100 - 1600 \times 11/100 = 124$   
Females in E =  $3000 \times 12/100 - 1600 \times 12/100 = 168$   
Total = 292
34. (a) Females at level D =  $3000 \times 10/100 - 1600 \times 11/100 = 124$   
males at level G =  $1600 \times 10/100 = 160$   
ratio =  $124:160 = 31:40$
35. (b) Males in E F and G level are =  $1600 \times 31/100 = 31 \times 16$   
percentage w.r.t total employees  
=  $(31 \times 16) \times 100/3000 = 16.53\%$
36. (b) Speed of vehicle A on day 1 =  $832/16 = 52\text{kmph}$   
Speed of vehicle A on day 2 =  $864/16 = 54\text{kmph}$   
Speed of vehicle B on day 1 =  $516/12 = 43\text{kmph}$   
Speed of vehicle B on day 2 =  $774/18 = 43\text{kmph}$   
Speed of vehicle C on day 1 =  $693/11 = 63\text{kmph}$   
Speed of vehicle C on day 2 =  $810/18 = 45\text{kmph}$   
Speed of vehicle D on day 1 =  $552/12 = 46\text{kmph}$   
Speed of vehicle D on day 2 =  $765/15 = 51\text{kmph}$   
Vehicle B travelled at the same speed on both the days

37. (b) Speed of vehicle A on day 1 =  $832/16 = 52\text{kmph}$   
Speed of vehicle C on day 1 =  $693/11 = 63\text{kmph}$   
Difference =  $63 - 52 = 11\text{kmph}$
38. (a) Speed of vehicle C on day 2 =  $810/18 = 45\text{kmph}$   
Speed of vehicle C on day 2 =  $45 \times (5/18) = 12.5 \text{ m/s}$
39. (a) Percentage =  $(636/703) \times 100 = 90\%$
40. (b) Speed of vehicle D on day 2 = 51kmph  
Speed of vehicle E on day 2 = 39kmph  
Ratio = [Speed of vehicle D on day 2/Speed of vehicle E on day 2] =  $51/39 = 17:13$

**Solutions : (41-55)****(41 : 43) :**

41. (d) 42. (d) 43. (e)



44. (b) 45. (b)

**Solutions (46-50)**

Name	Days	Telecom Company
A	Saturday	Uninor
B	Wednesday	Vodafone
C	Wednesday	BSNL
D	Friday	MTNL
E	Friday	Airtel
F	Tuesday	Idea
H	Saturday	Reliance

46. (a) 47. (d) 48. (b) 49. (b) 50. (a)

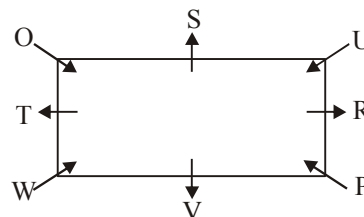
51. (e)



52. (c) 2nd digit from right = 7th digit from left  
Now, 7th digit after rearrangement = 3rd digit in the given number = 1

53. (b) 54. (b) 55. (b)

**(56-60)** According to the given information the sitting arrangement is as following:



56. (d) 57. (d) 58. (e) 59. (a)

60. (e) 61. (d) 62. (c)

63. (d) From I: First half of the year - Jan, Feb, Mar, Apr, May or June.

Hence, I alone is not sufficient.

From II: According to Rahul's son, Rahul went for vacation in April. Hence II alone is sufficient.

64. (a) From I:  $R > N > P > O > Q/M > Q/M$   
From II:  $\_ > \_ > M > \_ > \_ \dots$  (i)

$R > N > O$  and  $\_ > \_ > \_ > P > Q \dots$  (ii)

Now from (i) and (ii), we get

$R > N > M > O > P > Q$

Hence N is the second heaviest.

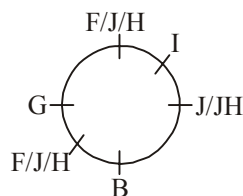
65. (e) From I: Suman scores 10, 12, 14, 16, 18 or 20.

From II: Suman scores 15, 16 or 17.

From I and II: 16 is common in both the statements.

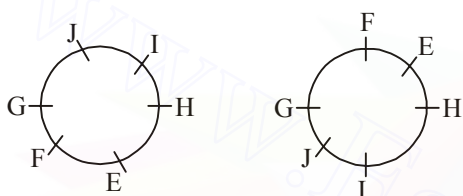
Hence, Suman's score in the exam is 16.

66. (b)



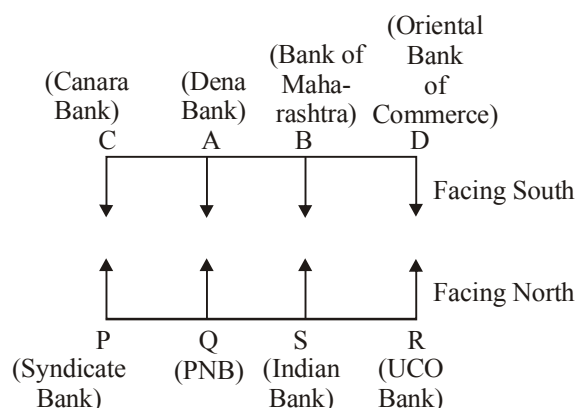
G is either on the immediate left or on the immediate right of F. So, I alone is not sufficient.

**From II :**

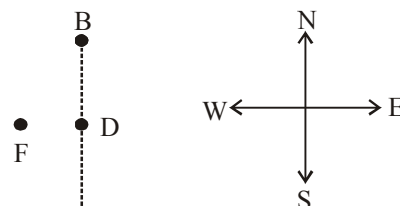


67. (e) From I:  $P > Q$ . But T is not the tallest.  
From II:  $R > P$ . But S is not the tallest.  
From I and II: We get  
 $R > P > Q$  and neither S nor T is the tallest.  
Hence, R is the tallest.
68. (b)  $519 - 746 \div 2 = 519 - 373 = 146$
69. (d) After interchange, the lowest number will be 495 as it has the lowest third digit.
70. (e) Since third digit becomes the first, look for the second highest third digit.
71. (c) 746 is the second highest number and  $7 - 4 = 3$
72. (a) After the respective subtraction and additions, the numbers become 618, 427, 845, 594 and 936. Among these, 594 is the second lowest.  
Now,  $9 + 4 = 13$

**Solutions(73-77)**



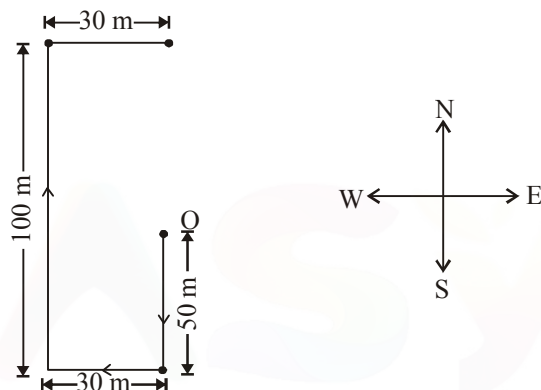
73. (b) 74. (e) 75. (d) 76. (a) 77. (d)  
78. (d)



Now, H may lie anywhere on the dotted line.

79. (c) how many goals scored = 5 3 9 7 ..... (i)  
many more matches = 9 8 2 ..... (ii)  
he scored five = 1 6 3 ..... (iii)  
From (i) and (ii), many = 9 (iv)  
From (i) and (iii), scored = 3 (v)  
Using (iv) and (v) in (i), we get  
goals = 5 or 7

80. (d)



$OP = 100 \text{ m} - 50 \text{ m} = 50 \text{ m}$

Besides, P is north of O.

- |          |                               |          |          |          |
|----------|-------------------------------|----------|----------|----------|
| 81. (b)  | 82. (a)                       | 83. (c)  | 84. (a)  | 85. (b)  |
| 86. (e)  | 87. (d)                       | 88. (a)  | 89. (b)  | 90. (d)  |
| 91. (d)  | 92. (b)                       | 93. (a)  | 94. (b)  | 95. (c)  |
| 96. (b)  | 97. (a)                       | 98. (e)  | 99. (c)  | 100. (d) |
| 101. (b) | 102. (a)                      | 103. (a) | 104. (c) | 105. (b) |
| 106. (a) | Say 'Dressed in black'.       |          |          |          |
| 107. (b) | Use 'did' in place of 'does'. |          |          |          |
| 108. (e) | The sentence is correct.      |          |          |          |
| 109. (d) | Use 'to' in place of 'on'.    |          |          |          |
| 110. (d) | Use 'with' in place of 'in'.  |          |          |          |
| 111. (e) | 112. (d)                      | 113. (b) | 114. (b) | 115. (b) |
| 116. (c) | 117. (a)                      | 118. (d) | 119. (c) | 120. (c) |
| 121. (b) | 122. (a)                      | 123. (d) | 124. (d) | 125. (c) |
| 126. (b) | 127. (c)                      | 128. (b) | 129. (c) | 130. (c) |
| 131. (b) | 132. (b)                      | 133. (e) | 134. (c) | 135. (b) |
| 136. (a) | 137. (c)                      | 138. (b) | 139. (d) | 140. (a) |
| 141. (c) | 142. (c)                      | 143. (d) | 144. (d) | 145. (c) |
| 146. (d) | 147. (a)                      | 148. (b) | 149. (e) | 150. (d) |
| 151. (e) | 152. (d)                      | 153. (c) | 154. (b) | 155. (b) |
| 156. (e) | 157. (d)                      | 158. (b) | 159. (a) | 160. (b) |
| 161. (d) | 162. (a)                      | 163. (d) | 164. (c) | 165. (c) |
| 166. d)  | 167. (a)                      | 168. (b) | 169. (c) | 170. (b) |
| 171. (b) | 172. (c)                      | 173. (b) | 174. (a) | 175. (d) |
| 176. (c) | 177. (b)                      | 178. (a) | 179. (a) | 180. (b) |
| 181. (a) | 182. (b)                      | 183. (b) | 184. (a) | 185. (c) |
| 186. (a) | 187. (c)                      | 188. (d) | 189. (b) | 190. (a) |
| 191. (c) | 192. (d)                      | 193. (c) | 194. (d) | 195. (d) |
| 196. (b) | 197. (d)                      | 198. (d) | 199. (d) | 200. (a) |