

# IBPS CWE RRB OFFICER SCALE- I EXAM 2014

Based on Memory

## REASONING ABILITY

1. In a certain code language 'HORSE' is written as 71417184, then the word 'MONKEY' is coded as:
- (a) 11141216425 (b) 12141310424  
(c) 12151411325 (d) 12151210424  
(e) None of these

**DIRECTIONS (Qs. 2-6) :** Read the following information and choose the right alternative in the questions that follow.

During the cultural week of an institute six competitions were conducted. The cultural week was inaugurated in the morning of 19th October, Wednesday and continued till 26th October. In the span of 8 days six competitions namely debate, folk dance, fash-p, street play, rock band and group song, were organized along with various other cultural programs. The information available from the institute is

- (i) Only one competition was held in a day  
(ii) Rock band competition was not conducted on the closing day  
(iii) Fash-p was conducted on the day prior to debate competition  
(iv) Group song competition was conducted neither on Wednesday nor on Saturday  
(v) None of the competition was conducted on Thursday and Sunday  
(vi) Street play competition was held on Monday  
(vii) There was gap of two days between debate competition and group song competition
2. The cultural week started with which competition?  
(a) Fash-p competition (b) Debate competition  
(c) Street play competition (d) Rock band competition  
(e) None of these
3. How many days gap is there between rock band competition and group song competition?  
(a) Two (b) Three  
(c) Four (d) Five  
(e) None of these
4. Which pair of competition was conducted on Wednesday?  
(a) Rock band competition and debate competition  
(b) Debate competition and fash-p competition  
(c) Rock band competition and folk dance competition  
(d) All of the above  
(e) None of these

5. Which competition is exactly preceded by the street play competition?  
(a) Rock band competition  
(b) Group song competition  
(c) Debate competition (d) Fash-p competition  
(e) None of these
6. Fash-p competition follows which competition?  
(a) Debate competition (b) Street play competition  
(c) Rock band competition (d) All of the above  
(e) None of these

**DIRECTIONS (Qs. 7-11) :** Each of the questions below starts with a few statements, followed by four conclusions numbered 1, 2, 3 and 4. You have to consider every given statement as true, even if it does not conform to the accepted facts. Read the conclusions carefully and then decide which of the conclusion(s) logically follow(s) from the given statements, disregarding commonly known facts.

7. **Statements :**

- I. Some boys are scholars  
II. Some teachers are boys  
III. All scholars are observers

**Conclusions:**

1. Some scholars are boys  
2. Some scholars are not boys  
3. Some observers are boys  
4. Some teachers are scholars  
(a) 1 and 3 follow  
(b) 1, 3 and 4 follow  
(c) Either 1 or 2 and 3 follow  
(d) All of the above  
(e) None of these

8. **Statements:**

- I. All teachers are professors  
II. All professors are researchers  
III. All researchers are consultants

**Conclusions:**

1. Some consultants are teachers  
2. All professors are consultants  
3. Some researchers are teachers  
4. All professors are teachers  
(a) Only 1 and 2 follow (b) Only 1 and 3 follow  
(c) Either 1 or 4 follow (d) All of the above  
(e) None of these

9. **Statements:**

- I. Some drivers are technicians
- II. All technicians are engineers
- III. Some engineers are lecturers

**Conclusions:**

- 1. Some technicians are lectures
- 2. Some lecturers are drivers
- 3. All engineers are technicians
- 4. Some engineers are drivers
- (a) Only 3 follows
- (b) Only 4 follows.
- (c) Only 3 and 4 follows
- (d) All of the above
- (e) None of these

10. **Statements:**

- I. Some barbers are fashion designers
- II. No fashion designers are businessmen
- III. Some businessmen are traders

**Conclusions:**

- 1. No Fashion designers are traders
- 2. Some traders are not fashion designers
- 3. Some fashion designers are traders
- 4. Some barbers are not businessmen
- (a) Either 1, 2 and 4 or 3, 2 and 4 follow
- (b) Either 1 and 4 or 3 and 4 follow
- (c) Either 1 and 2 or 3 and 2 follow
- (d) All of the above
- (e) None of these

11. **Statements:****I. Some boys are scholars****II. Some teachers are boys****III. All scholars are observers****Conclusions:**

- 1. Some scholars are boys
- 2. Some scholars are not boys
- 3. Some observers are boys
- 4. Some teachers are scholars

- (a) 1 and 3 follow
- (b) 1, 3, and 4 follow
- (c) Either 1 or 2 and 3 follow
- (d) All of the above
- (e) None of these

12. Immediately after leaving his house, Ratvik turned right and walked for 40 m. Then he turned left and walked for 20 mts. Then he again took a left turn and walked for 30 mts. There he met a friend and turned right to go to the coffee shop 20 mts away. After having coffee, he walked back straight for 40 mts in the direction he had come from. How far is he from his house?

- (a) 20 m
- (b) 0 m
- (c) 10 m
- (d) 40 m
- (e) None of these

13. A is B's Mother and D is B's mother.

T is E's daughter whose wife is B. how are E and D related?

- (a) Brother
- (b) Brother-in-law
- (c) Uncle
- (d) Father-in-law
- (e) None of these

**DIRECTIONS (Qs. 14-18):** Study the following information carefully and answer the questions given below:.

A, B, C, D, E, F, G and H are eight employees of an organization working in three departments, viz Personnel, Administration and Marketing with not more than three of them in any department. Each of them has a different choice of sports from football, cricket, volleyball, badminton, lawn tennis, basketball, hockey and table tennis, not necessarily in the same order.

D works in Administration and does not like either football or cricket. F works in Personnel with only A, who likes table tennis. E and H do not work in the same department as D. C likes hockey and does not work in Marketing. G does not work in Administration and does not like either cricket or badminton. One of those who work in Administration likes football. The one who likes volleyball works in Personnel. None of those who work in Administration likes either badminton or lawn tennis. H does not like cricket.

14. Which of the following groups of employees work in Administration department?

- (a) EGH
- (b) SAF
- (c) BCD
- (d) BCD
- (e) Data inadequate

15. In which department does E work?

- (a) Personnel
- (b) Marketing
- (c) Administration
- (d) Data inadequate
- (e) None of these

16. Which of the following combinations of employee department favourite sport is correct?

- (a) E - Administration - Cricket
- (b) F - Personnel - Lawn Tennis
- (c) H - Marketing - Lawn Tennis
- (d) B - Administration - Table Tennis
- (e) None of these

17. What is E's favourite sport?

- (a) Cricket
- (b) Badminton
- (c) Basketball
- (d) Lawn Tennis
- (e) None of these

18. What is G's favourite sport?

- (a) Cricket
- (b) Badminton
- (c) Basketball
- (d) Lawn Tennis
- (e) None of these

**DIRECTIONS (Qs. 19-23):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

- (a) if 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;

- (b) if 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;
- (c) if the data in Statement I alone or in Statement II alone are sufficient to answer the question;
- (d) if the data in both the Statements I and II are not sufficient to answer the question;
- (e) if the data in both the Statements I and II together are necessary to answer the question.
19. How is P related to Q?

**Statements:**

- I. Mother of P is daughter of R  
II. R is sister of Q

20. Among five friends A, B, C, D and E who is the youngest?

**Statements:**

- I. B and D are older than C and E  
II. C is older than only E

21. Tower R is in which direction with respect to Q?

**Statements:**

- I. M is to the East of Q and to the North of R.  
II. L is to the West of R and to the South of Q.

22. How many children are there in the row of children facing North?

**Statements:**

- I. Kavitha is twelfth from the left end of the row and is seventh to the right of Nisha.  
II. Nisha is twentieth from the right end of the row.

23. How many sons does 'D' have ?

**Statements:**

- I. R is the only sister of T and M who are sons of D.  
II. T and M are only brothers of R who is daughter of D.

**DIRECTIONS (Qs. 24-28):** In the following questions, the symbols  $\beta$ ,  $\gamma$ ,  $\psi$ ,  $\alpha$  and  $\delta$  are used with the following meanings..

$P \beta Q$  means P is not smaller than Q.

$P \gamma Q$  means P is neither greater than nor smaller than Q.

$P \psi Q$  means P is not greater than Q.

$P \alpha Q$  means P is neither smaller than nor equal to Q.

$P \delta Q$  means P is neither greater than nor equal to Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true. Give answer,

- (a) if only conclusion I is true;  
(b) if only conclusion II is true;  
(c) if either I or II is true;  
(d) if neither I nor II is true; and  
(e) if both I and II are true.

24. **Statements:**  $M \beta N$ ,  $H \psi Q$ ,  $B \beta M$

- Conclusions:** I.  $H \gamma M$   
II.  $Q \gamma N$

25. **Statements:**  $C \alpha B$ ,  $L \delta S$ ,  $S \psi C$

- Conclusions:** I.  $B \alpha S$   
II.  $C \alpha L$

26. **Statements:**  $I \beta H$ ,  $E \alpha F$ ,  $I \gamma F$

- Conclusions:** I.  $E \alpha I$   
II.  $H \delta E$

27. **Statements:**  $V \gamma O$ ,  $R \gamma V$ ,  $O \beta B$

- Conclusions:** I.  $R \gamma R$   
II.  $R \alpha B$

28. **Statements:**  $L \alpha U$ ,  $T \gamma V$ ,  $O \beta B$ .

- Conclusions:** I.  $T \alpha W$   
II.  $U \gamma W$

**DIRECTIONS (Qs. 29-33):** Read the following information carefully and answer the questions which follow.

A, B, C, D, E, F, G and H study in different standards viz 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th. All of them are seated around a circular table facing the centre.

C sits third to right of H. H studies in std. 8. F sits second to left of E. E is not an immediate neighbour of C or H. The one who studies in std. 1 is an immediate neighbour of E. Three people sit between H and the student of std. 7.

H, C and also their immediate neighbours do not study in std. 2. Only one person sits between the student of std. 2 and G. Students of std. 3 and 4 are immediate neighbours of each other. C is neither in std. 4 nor in std. 3. Only one person sits between A and the student of std 5. A does not study in std. 2 or 3. B does not study in std. 2.

29. Which of the following is **true** regarding F ?

- (a) F studies in std. 5  
(b) D and G are immediate neighbours of F  
(c) One person sits between F and the student of std. 4.  
(d) None is true  
(e) None of these

30. Who amongst the following studies in std. 3 ?

- (a) C (b) F  
(c) G (d) B  
(e) None of these

31. How many persons sit between D and student of std. 4, when counted from the left hand side of student of std. 4?

- (a) None (b) One  
(c) Two (d) Three  
(e) None of these

32. Which of the following is **true** ?

- (a) Only one person is sitting between student of std 4 and std. 6.  
(b) D studies in std. 2.  
(c) The one studying in std. 3 is an immediate neighbour of H  
(d) One person sits between H and the student of std. 2.  
(e) None of these

33. Who amongst the following represent immediate neighbours of G ?

- (a) A, B  
(b) E and the student of std.2.  
(c) H and the student of std. 6.  
(d) E, F  
(e) None of these

**DIRECTIONS (Qs. 34-37):** Read the following information carefully and answer these questions.

In a certain coding system,

'816321' means 'the brown dog frightened the cat';

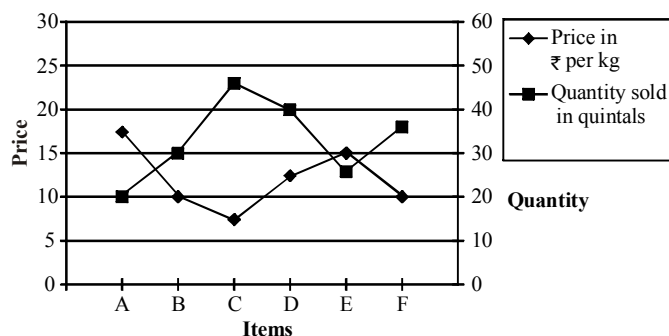
'64851' means 'the frightened cat ran away'.



51. For which model was the selling price per unit is greater than the average selling price?  
 (a) TV 21" (b) TV 17"  
 (c) TV 25" (d) TV 29"  
 (e) None of these
52. What was the profit generated by the TV 29" model (in ₹ Lakhs)?  
 (a) 5 (b) 4  
 (c) 1 (d) 2  
 (e) None of these
53. What was the profit margin of the TV 25" model?  
 (a) 11.4% (b) 53.8%  
 (c) 24.6% (d) 38.2%  
 (e) None of these
54. The maximum percentage profit was for the model  
 (a) TV 25" (b) TV 29"  
 (c) TV 21" (d) TV 17"  
 (e) None of these
55. Total profit earned by the company in the year 2006 was ₹ \_\_\_\_\_ million.  
 (a) 6.47 (b) 5.58  
 (c) 9.72 (d) 12.70  
 (e) None of these

**DIRECTIONS (Qs. 56-60):** Study the following graph carefully to answer these questions.

**Quantity of Various Items Sold and Price per kg**



56. If the quantity sold of item D increased by 50% and the price reduced by 10%. What was the total value of the quantity sold for item D ?  
 (a) ₹ 675 (b) ₹ 6750 (c) ₹ 67550  
 (d) ₹ 67500 (e) None of these
57. **Approximately**, what is the average price per kg of items A, B & C ?  
 (a) ₹ 9.50 (b) ₹ 8 (c) ₹ 7.50  
 (d) ₹ 9 (e) ₹ 10.50
58. What is the ratio between the total values of quantity sold for items E & F respectively ?  
 (a) 15 : 14 (b) 3 : 2 (c) 5 : 7  
 (d) 7 : 5 (e) None of these
59. Total value of the quantity sold for item C is what per cent of the total value of the quantity sold for item E ?  
 (a) 111 (b) 85 (c) 90  
 (d) 87.5 (e) None of these
60. If the price as well as the quantity sold is increased by 20% for item A, what is the total value of quantity sold for item A?  
 (a) ₹ 48500 (b) ₹ 49000 (c) ₹ 42000  
 (d) ₹ 50400 (e) None of these

**DIRECTIONS (Qs. 61-66):** Refer the following table to answer the questions that follow :

**Sectorwise Installed Capacity in MW**

| Year | Thermal | Hydel | Nuclear | Total |
|------|---------|-------|---------|-------|
| 2003 | 7900    | 6390  | 420     | 14710 |
| 2004 | 8200    | 6610  | 420     | 15230 |
| 2005 | 8900    | 6780  | 420     | 16100 |
| 2006 | 9100    | 6965  | 640     | 16705 |
| 2007 | 10150   | 7530  | 640     | 18320 |
| 2008 | 11000   | 8500  | 640     | 20140 |
| 2009 | 12000   | 9200  | 640     | 21840 |
| 2010 | 13000   | 9880  | 640     | 23520 |
| 2011 | 15200   | 10200 | 800     | 26200 |
| 2012 | 16700   | 10450 | 800     | 27950 |
| 2013 | 19000   | 11000 | 800     | 30800 |

61. The two years when the capacities were augmented in all the sectors are  
 (a) 2006 and 2011 (b) 2003 and 2004  
 (c) 2006 and 2009 (d) 2006 and 2013  
 (e) None of these
62. The percentage increase in hydel capacity over that of the previous year was maximum in  
 (a) 2010 (b) 2004  
 (c) 2012 (d) 2008  
 (e) None of these
63. In 2013, the percentage share of nuclear power in the total power capacity installed was approximately  
 (a) 10.0 (b) 2.59  
 (c) 5.42 (d) 1.11  
 (e) None of these
64. If the total power generated in thermal units be 40% of the installed capacity, in hydel units be 50% of the installed capacity and in nuclear units be 90% of the installed capacity, the total power generation in 2011 would be  
 (a) 19835 MW (b) 11900 MW  
 (c) 5015 MW (d) 22100 MW  
 (e) None of these
65. In 2003, the percentage share of thermal in total installed capacity was approximately  
 (a) 45 (b) 50  
 (c) 26 (d) 54  
 (e) None of these
66. The growth in the installed thermal capacity between 1991 and 2012 was approximately  
 (a) 51% (b) 130%  
 (c) 92% (d) 103%  
 (e) None of these
67. A right circular cone and a right circular cylinder have equal base and equal height. If the radius of the base and the height are in the ratio 5 : 12, then the ratio of the total surface area of the cylinder to that of the cone is  
 (a) 3 : 1 (b) 13 : 9  
 (c) 17 : 9 (d) 34 : 9  
 (e) None of these
68. A manufacturer sells a pair of glasses to a wholesale dealer at a profit of 18%. The wholesaler sells the same to a retailer at a profit of 20%. The retailer in turn sells them to a customer for ₹ 30.09, thereby earning a profit of 25%. The cost price for the manufacturer is  
 (a) ₹ 15 (b) ₹ 16  
 (c) ₹ 17 (d) ₹ 18  
 (e) None of these

69. Three wheels can complete respectively 60, 36, 24 revolutions per minute. There is a red spot on each wheel that touches the ground at time zero. After how much time, all these spots will simultaneously touch the ground again?  
 (a)  $5/2$  seconds (b)  $5/3$  seconds  
 (c) 5 seconds (d) 7.5 seconds  
 (e) None of these
70. A train after travelling 150 km meets with an accident and then proceeds with  $3/5$  of its former speed and arrives at its destination 8 h late. Had the accident occurred 360 km further, it would have reached the destination 4 h late. What is the total distance travelled by the train?  
 (a) 840 km (b) 960 km  
 (c) 870 km (d) 1100 km  
 (e) None of these
71. Two friends P and Q started a business investing in the ratio of 5 : 6. R joined them after six months investing an amount equal to that of Q's. At the end of the year, 20% profit was earned which was equal to ₹98,000. What was the amount invested by R?  
 (a) ₹1,05,000 (b) ₹1,75,000  
 (c) ₹2,10,000 (d) Data inadequate  
 (e) None of these
72. A can build up a wall in 8 days while B can break it in 3 days. A has worked for 4 days and then B joined to work with A for another 2 days only. In how many days will A alone build up the remaining part of wall?  
 (a)  $13\frac{1}{3}$  days (b)  $7\frac{1}{3}$  days  
 (c)  $6\frac{1}{3}$  days (d) 7 days  
 (e) None of these
73. In a family, a couple has a son and daughter. The age of the father is three times that of his daughter and the age of the son is half of his mother. The wife is nine years younger to her husband and the brother is seven years older than his sister. What is the age of the mother?  
 (a) 40 years (b) 45 years (c) 50 years  
 (d) 60 years (e) 65 years

**DIRECTIONS (Qs. 74-76):** Study the following information carefully to answer the questions that follow. A box contains 2 blue caps, 4 red caps, 5 green caps and 1 yellow cap:

74. If four caps are picked at random, what is the probability that none is green?  
 (a)  $\frac{7}{99}$  (b)  $\frac{5}{99}$  (c)  $\frac{7}{12}$   
 (d)  $\frac{5}{12}$  (e) None of these
75. If three caps are picked at random, what is the probability that two are red and one is green?  
 (a)  $\frac{9}{22}$  (b)  $\frac{6}{19}$  (c)  $\frac{1}{6}$   
 (d)  $\frac{3}{22}$  (e) None of these

76. If one cap is picked at random, what is the probability that it is either blue or yellow?

- (a)  $\frac{2}{9}$  (b)  $\frac{1}{4}$  (c)  $\frac{3}{8}$   
 (d)  $\frac{6}{11}$  (e) None of these

**DIRECTIONS (Qs. 77-80):** In the following questions two equations numbered I and II are given. You have to solve both the equations and Give Answer if

- (a)  $x > y$  (b)  $x \geq y$   
 (c)  $x < y$  (d)  $x \leq y$   
 (e)  $x = y$  or the relationship cannot be established.
77. I.  $20x^2 - x - 12 = 0$   
 II.  $20y^2 + 27y + 9 = 0$
78. I.  $x^2 - 218 = 106$   
 II.  $y^2 - 37y + 342 = 0$
79. I.  $\frac{7}{\sqrt{x}} + \frac{5}{\sqrt{x}} = \sqrt{x}$   
 II.  $y^2 - \frac{(12)^{5/2}}{\sqrt{y}} = 0$
80. I.  $\sqrt{361}x + \sqrt{16} = 0$   
 II.  $\sqrt{441}y + 4 = 0$

## ENGLISH LANGUAGE

**DIRECTIONS (Qs. 81-85):** Read the following passage and answer the questions that follows:

One of the creation's great mysteries is the formation and existence of the rocky planets, such as our Earth. Recently, scientists who peered for 13 days across 1500 light years of universe believe that they may have the answer to this question. They used a sophisticated orbiting X-ray telescope, called Chandra, to study 1400 young stars in Orion Nebula and identified 27 stars that behave very much as the Sun may once have done, some 4.6 billion years ago. These young stars are surrounded by discs from which planets could condense and they tend to erupt in vast flares far greater than anything now observed in the mature Sun. These flares could be an evidence of a process that would clear the way for small rocky planets to form. Scientists peer back to a time when Venus, Earth and Mars might have first formed from stony cinders whirling around a young star. So, it is said by a scientist that they do not have time machine to see back, but the next big thing is to observe the sun-like stars in Orion Nebula.

81. Scientists now believe that can now disclose the candid creation's great mystery, which is  
 (a) the formation and existence of planets like Earth  
 (b) the formation of stars with planets orbiting around them  
 (c) the appearance of the Sun some 4.6 billion around them  
 (d) the appearance of planets from discs  
 (e) None of these

82. 'Chandra' is the name of
  - (a) a noon
  - (b) a star
  - (c) a telescope
  - (d) a newly invented time machine
  - (e) None of these
83. Young stars are surrounded by discs from which
  - (a) satellites formed
  - (b) planets condensed
  - (c) eruption took place
  - (d) universe was created
  - (e) None of these
84. Though the Orion Nebula has a number of stars, only 27 stars
  - (a) might have formed from stony cinders
  - (b) tend to erupt in vast flares
  - (c) seem to have planets like Earth
  - (d) are found to be too young to be surrounded by discs
  - (e) None of these
85. According to a scientist, the next best thing is
  - (a) to travel in space to have a close look at the stars
  - (b) to travel to Venus and Mars to see how they were formed
  - (c) to look at the stars in Orion that behave like the Sun
  - (d) to take a look at the planets in Orion, that behave like Earth
  - (e) None of these

**DIRECTIONS (Qs. 86-95):** *In the following passage there are blanks, each of which as 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.*

There is a considerable amount of research about the factors that make a company innovate. So is it possible to create an environment (86 ) to innovation? This is a particularly pertinent (87) for India today. Massive problems in health, education etc. (88) be solved using a conventional approach but (89) creative and innovative solutions that can ensure radical change and (90). There are several factors in India's (91). Few countries have the rich diversity that India or its large, young population (92). While these (93) innovation policy interventions certain additional steps are also required. These include (94) investment in research and development by (95) the government and the private sector, easy transfer of technology from the academic world etc. To fulfill its promise of being prosperous and to be at the forefront, India must be innovative.

86. (a) stimuli (b) conducive  
(c) incentive (d) facilitated  
(e) impetus
87. (a) objective (b) controversy  
(c) doubt (d) question  
(e) inference
88. (a) cannot (b) possibly  
(c) should (d) never  
(e) must
89. (a) necessary (b) apply  
(c) need (d) consider  
(e) requires
90. (a) quantity (b) advantages  
(c) increase (d) chaos  
(e) growth
91. (a) challenges (b) praises  
(c) favour (d) leverage  
(e) esteem

92. (a) blessed (b) enjoys  
(c) endows (d) prevails  
(e) occurs
93. (a) aid (b) jeopardise  
(c) promotes (d) endure  
(e) cater
94. (a) acute (b) utilising  
(c) restricting (d) inspiring  
(e) increased
95. (a) both (b) besides  
(c) combining (d) participating  
(e) a

**DIRECTIONS (Qs. 96-100):** Read each of the following sentences, some part of the sentence is given in bold. Below each sentence is given five ways of phrasing the bold given part. Select the answer from among the choices which produces the most effective sentence, one that is clear and exact. If there is no error in the bold given part (e) is the answer.

96. That was the record that **make me sit up and take notice** of Neil Hannon.
- (a) made me sit up and take notice
  - (b) had made me sit up and take notice
  - (c) has made me sit up and take notice
  - (d) sit up and take notice
  - (e) No correction required
97. These mistakes **catch up with** him when he ran for President.
- (a) caught up in
  - (b) caught up with
  - (c) caught up on
  - (d) caught up at
  - (e) No correction required
98. When I told her about breaking the window, **she goes through the roof**.
- (a) she went through the roof
  - (b) she went via the roof
  - (c) she went through roof
  - (d) she went with roof
  - (e) No correction required
99. **A preventive programme for the break out of** epidemic in quake-hit areas must be introduced.
- (a) A preventive programme before the break out of
  - (b) A preventive programme for the breaking out of
  - (c) A preventive programme for the out break of
  - (d) A preventive programme before the out break of
  - (e) No correction required
100. **Last but not the least, I would like to thank all the workers without whose co-operation**, the rally wouldn't be a success.
- (a) Last but not least, I would like to thank all the worker without their co-operation.
  - (b) Last but not the least, I would like to thank all the worker without their co-operation,
  - (c) Last but not least, I would like to thank all the workers without whose co-operation,
  - (d) Last but not the least, I would like to thank all those workers without their co-operation,
  - (e) No correction required

**DIRECTIONS (Qs. 101-105):** *The sentences given in each question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter: Choose the most logical order of the sentences from amongst the given choices so as to form a coherent paragraph.*

101. P : Such a national policy will surely divide and never unite the people.  
 Q : Infact, it suites the purpose of the politicians, they can drag the people into submission by appealing to them in the name of religion.  
 R : In order to inculcate, the unquestioning belief, they condemn the other states which do not follow their religion.  
 S : The emergence of the theocratic states, where all types of crimes are committed in the name of religion of the Middle Ages is dangerous.
- (a) P Q R S (b) S Q R P  
 (c) S Q P R (d) R SP Q  
 (e) None of these
102. A. You would be very surprised indeed to find it hot.  
 B. Cold, of course.  
 C. And yet that was what I found when I visited North Island, the northern part of New Zealand.  
 D. When you go bathing in a river or a pond, do you expect the water to be hot or cold?
- (a) ACBD (b) CABD  
 (c) ACDB (d) DBAC  
 (e) None of these
103. A. Because, if the manager's subordinates are inefficient and ineffective and are not helped to increase their efficiency and effectiveness, the task may not be achieved.  
 B. This must be just as true as the responsibility for achieving his prescribed tasks.  
 C. If it is achieved it is at too great a cost, or at the risk of other effects, many of which are less obvious.  
 D. It is often and that one of the prime responsibilities of a manager is the training and development of his staff.
- (a) ADBC (b) CABD  
 (c) BDAC (d) 'DBAC  
 (e) None of these
104. A. Modern research, however, has proved that invaders even before the Aryans poured into this land.  
 B. It was thought that they came to a country which was Uncivilized and barbarian.  
 C. They had evolved a civilization higher than that of the Aryan hordes who came in their wake.  
 D. Till recently the Aryans were regarded as the earliest invaders of the land.
- (a) ABCD (b) BCAD  
 (c) BDAC (d) DBAC  
 (e) None of these
105. A. Organizations today are becoming increasingly populated by youthful, highly skilled, highly educated workers.  
 B. Two of the most prevalent and provocative organizational dynamics of our time are the themes of participation and change.  
 C. These demands for participation are creating pressures for internal organizational change which are matched

only by external environmental pressures for organizational change.

- D. These young, skilled and educated workers bring with them demands for a voice in the determination of their own organizational destiny-a chance to participate in those decisions which affect their organizational lives.
- (a) ABDC (b) BADC  
 (c) ABCD (d) BCDA  
 (e) None of these

**DIRECTIONS (Qs. 106-110) :** *Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in **bold** to help you to locate them while answering some of the questions.*

We have inherited the tradition of secrecy about the budget from Britain where also the system has been strongly attacked by eminent economists and political scientists including Peter Jay. Sir Richard Clarke, who was the originating genius of nearly every **important** development in the British budgeting techniques during the last two decades, has spoken out about the abuse of budget secrecy: "The problems of long-term tax policy should surely be **debated** openly with the facts on the table. In my opinion, all governments should have just the same **duty** to publish their expenditure policy. Indeed, this obligation to publish taxation policy is really essential for the control of public expenditure in order to get realistic taxation implications." Realising that democracy **flourishes** best on the principles of open government, more and more democracies are having an open public debate on budget proposals before introducing the appropriate Bill in the legislature. In the United States the budget is conveyed in a message by the President to the Congress, which comes well in advance of the — date when the Bill is introduced in the Congress. In Finland the Parliament and the people are already discussing in June the tentative budget proposals which are to be introduced in the Finnish Parliament in September. Every budget contains a cartload of figures in black and white - but the dark figures represent the **myriad** lights and shades of India's life, the contrasting tones of poverty and wealth, and of bread so dear and flesh and blood so cheap, the deep tints of adventure and enterprise and man's ageless struggle for a brighter morning. The Union budget should not be an annual **scourge** but a part of presentation of annual accounts of a partnership between the Government and the people. That partnership would work much better when the nonsensical secrecy is replaced by openness and public consultations, resulting in fair laws and the people's acceptance of their moral duty to pay.

106. How do the British economists and political scientists react to budget secrecy? They are
- (a) in favour of having a mix of secrecy and openness.  
 (b) indifferent to the budgeting techniques and taxation policies.  
 (c) very critical about maintenance of budget secrecy.  
 (d) advocates of not disclosing in advance the budget contents.  
 (e) None of these
107. The author thinks that openness in budget is essential as it leads to
- (a) prevention of tax implications  
 (b) people's reluctance to accept their moral duties  
 (c) exaggerated revelation of the strengths and weaknesses of economy  
 (d) making our country on par with Finland  
 (e) None of these

108. The author seems to be in favour of  
 (a) maintaining secrecy of budget  
 (b) judicious blend of secrecy and openness  
 (c) transparency in budget proposals  
 (d) replacement of public constitution by secrecy  
 (e) None of these
109. The secrecy of the budget is maintained by all of the following countries **except**  
 A Finland  
 B India  
 C United States  
 (a) Only A (b) Only B  
 (c) Only C (d) A and C  
 (e) B and C
110. Which of the following statements is definitely TRUE in the context of the passage?  
 (a) The British Government has been religiously maintaining budget secrecy.  
 (b) Budget secrecy is likely to lead to corrupt practices.  
 (c) Consulting unjustifiable taxes with public helps make them accept those taxes.  
 (d) There should be no control on public expenditure in democratic condition.  
 (e) None of these
111. Sir Richard Clarke seems to deserve the credit for  
 (a) transformation in the British budgetary techniques.  
 (b) maintenance of secrecy of the British budget.  
 (c) detection of abuse of transparency in budget.  
 (d) bringing down the tax load on British people.  
 (e) None of these
112. From the contents of the passage, it can be inferred that the author is  
 (a) authoritarian in his approach.  
 (b) a democratic person.  
 (c) unaware of India's recent economic developments.  
 (d) a conservative person.  
 (e) None of these
113. Which of the following statement(s) is/are definitely false in the context of the passage?  
 A Transparency helps unscrupulous elements to resort to corrupt practices.  
 B Open approach of Government is a sign of healthy democracy.  
 C People's acceptance of their moral duties can best be achieved through openness and public consultations.  
 (a) Only A (b) Only B  
 (c) Only C (d) A and B  
 (e) B and C
114. For making the budget realistic, the Government should  
 (a) refrain from making public the proposed provisions before finalisation.  
 (b) discuss it secretly within themselves.  
 (c) encourage the public to send in their suggestions.  
 (d) consult the public, defend their own plans and accept public suggestions.  
 (e) None of these

**DIRECTIONS (Qs. 115-117) :** Choose the word which is most nearly the **SAME** in meaning to the word printed in bold as used in the passage.

115. **SCOURGE**  
 (a) ritual (b) presentation  
 (c) whip (d) compromise  
 (e) remedy
116. **MYRIAD**  
 (a) adequate (b) functional  
 (c) incompatible (d) abundant  
 (e) excellent
117. **DUTY**  
 (a) obligation (b) imposition  
 (c) tax-liability (d) function  
 (e) job

**DIRECTIONS (Qs. 118-120) :** Choose the word/phrase which is most **OPPOSITE** in meaning to the word printed in bold as used in the passage.

118. **FLOURISHES**  
 (a) disappears (b) degenerates  
 (c) vanishes (d) blooms  
 (e) opens
119. **DEBATED**  
 (a) questioned severely  
 (b) opposed strongly  
 (c) accepted unconditionally  
 (d) discussed frankly  
 (e) implemented forcibly
120. **IMPORTANT**  
 (a) major (b) uncountable  
 (c) significant (d) unscheduled  
 (e) trivial

## COMPUTER KNOWLEDGE

121. Which of the following is not valid version of MS Office?  
 (a) Office XP (b) Office Vista  
 (c) Office 2007 (d) All of the above  
 (e) None of these
122. You cannot close MS Word application by  
 (a) Choosing File menu then Exit submenu  
 (b) Press Alt+F4  
 (c) Click X button on title bar  
 (d) From File menu choose Close submenu  
 (e) None of these
123. The key F12 opens a  
 (a) Save As dialog box (b) Open dialog box  
 (c) Save dialog box (d) Close dialog box  
 (e) None of these
124. What is the short cut key to open the Open dialog box?  
 (a) F12 (b) Shift F12  
 (c) Alt + F12 (d) Ctrl + F12  
 (e) None of these

125. Where can you find the horizontal split bar on MS Word screen?
- On the left of horizontal scroll bar
  - On the right of horizontal scroll bar
  - On the top of vertical scroll bar
  - On the bottom of vertical scroll bar
  - None of these
126. Which of the following is not available on the Ruler of MS Word screen?
- Tab stop box
  - Left Indent
  - Right Indent
  - Center Indent
  - All of them are available on ruler
127. What is place to the left of horizontal scroll bar?
- Tab stop buttons
  - View buttons
  - Split buttons
  - Indicators
  - None of above
128. Which file starts MS Word?
- Winword.exe
  - Word.exe
  - Msword.exe
  - Word2003.exe
  - None of these
129. How many ways you can save a document?
- 3
  - 4
  - 5
  - 6
  - None of these
130. If you want to keep track of different editions of a document which features will you use?
- Editions
  - Versions
  - Track Change
  - All of the above
  - None of these
131. If there are multiple recycle bin for a hard disk
- you can set different size for each recycle bin
  - you can choose which recycle bin to use to store your deleted files
  - You can make any one of them default recycle bin
  - All of the above
  - None of these
132. Identify false statement
- You can find deleted files in recycle bin
  - You can restore any files in recycle bin if you ever need
  - You can increase free space of disk by sending files in recycle bin
  - You can right click and choose Empty Recycle Bin to clean it at once
  - None of these
133. If the displayed system time and date is wrong, you can reset it using
- Write
  - Calendar
  - Write file
  - Control panel
  - None of these
134. You should save your computer from?
- Viruses
  - Time bombs
  - Worms
  - All of the above
  - None of these
135. World Wide Web is being standard by
- Worldwide corporation
  - W3C
  - World Wide Consortium
  - World Wide Web Standard
  - None of these
136. A co-processor
- Is relatively easy to support in software
  - Causes all processor to function equally
  - Works with any application
  - Is quite common in modern computer
  - None of these
137. A Microsoft Windows is ..... a(n)
- Operating system
  - Graphic program
  - Word Processing
  - Database program
  - None of these
138. Which of the following is program group?
- Accessories
  - Paint
  - Word
  - All of the above
  - None of these
139. Which is not application software?
- Windows NT
  - Page Maker
  - WinWord XP
  - Photoshop
  - None of these
140. Which of the following is an example of a real time operating system?
- Lynx
  - MS DOS
  - Windows XP
  - Process Control
  - None of these
141. Computer Network is
- Collection of hardware componets and computer
  - Interconnected by communication cahannels
  - Sharing of resource and informaton
  - All of the above
  - None of these
142. DHCP Stand for
- Dynamic host control protocol
  - Dynamic Host Configuration Protocol
  - Dynamic Hyper Control Protocol
  - Dynamic Hyper Configuration Protocol
  - None of these
143. IPV4 Address is
- 8 Bit
  - 16 Bit
  - 32 Bit
  - 64 Bit
  - None of these
144. ADSL Stand for
- Asymmetric Dual Subscriber Line
  - Asymmetric Digital System Line
  - Asymmetric Dual System Line
  - Asymmetric Digital Subscriber Line
  - None of these
145. The Last Address of IP Address Represent
- Unicast Address
  - Network Address
  - Broadcast Address
  - All of Above
  - None of these
146. How many bits are there in the Ethernet Address?
- 64 Bits
  - 48 Bits
  - 32 Bits
  - 16 Bits
  - None of these
147. Which of following is not the networking devices?
- Getewasys
  - Linus
  - Routers
  - Firewalls
  - None of these
148. Which of the following can be software?
- Router
  - Firewalls
  - Gateway
  - Modems
  - None of these

149. What is the the address size of IPv6?  
 (a) 32 Bit (b) 64 Bit  
 (c) 128 Bit (d) 256 Bit  
 (e) None of these
150. Which of the following IP Address class is Multicast?  
 (a) Class A (b) Class B  
 (c) Class C (d) Class D  
 (e) None of these
151. If a web page's URL includes \_\_\_\_\_, the page secure.  
 (a) https (b) serial interface protocol  
 (c) cookie (d) flat-file  
 (e) None of these
152. In a computer, a \_\_\_\_\_ Can perform both input and output functions.  
 (a) microphone (b) trackball  
 (c) touch screen (d) RAM  
 (e) None of these
153. What does MICR mean?  
 (a) Magnetic Idle Cassette Recorder  
 (b) Magnetic Ink Codes reader  
 (c) Magnetic Ink Cases Reader  
 (d) Magnetic Ink Character Reader  
 (e) Magnetic Ink Code Reader
154. Which of the following is not an output device?  
 (a) Monitor (b) Printer  
 (c) Mouse (d) Speaker  
 (e) None of these
155. VGA stands for:  
 (a) Video Graphics Array  
 (b) Visual Graphics Array  
 (c) Volatile Graphics Array  
 (d) Video Graphics Adapter  
 (e) Visual Gallery Adapter
156. The 'add or remove program' utility can be found in:  
 (a) Control Panel (b) CPU  
 (c) Desktop (d) Search Engine  
 (e) My Computer
157. Which of the following is spreadsheet software?  
 (a) MS Excel (b) MS Word  
 (c) Power Point (d) Adobe Acrobat  
 (e) My Computer
158. What does 'ATM' stand for?  
 (a) Automatic Teller Machine  
 (b) Automated Teller Machine  
 (c) Augmented Teller Machine  
 (d) Automatic Telling  
 (e) Automated Transfer Machine
159. Which one of the following in the first program of Microsoft?  
 (a) Windows XP (b) Windows 98  
 (c) MS DOS (d) Windows 7  
 (e) Windows 97
160. DOT MATRIX is a kind of:  
 (a) Scanner (b) Operating System  
 (c) Software (d) Printer  
 (e) Monitorans

## GENERAL AWARENESS

161. Which state in India has highest rural population?  
 (a) UP (b) MP  
 (c) Haryana (d) Bihar  
 (e) None of these
162. Which is the currency of Finland?  
 (a) Pound (b) Euro  
 (c) Dollar (d) Yen  
 (e) None of these
163. RBI imposed a limit of ATM transactions. Which cities does come under this?  
 (a) Pune and Raipur (b) Pune and Baroda  
 (c) Chandigarh and Raipur (d) Mumbai and Delhi  
 (e) None of these
164. "The Vijay Mallya Story" book has been written by  
 (a) MB Krishan (b) K Giriprakash  
 (c) Balkrishan Acharya (d) Pankaj Singh  
 (e) None of these
165. RBI license has been given to which micro-finance company?  
 (a) NAFED (b) IFFCO  
 (c) Bandhan (d) IFCI  
 (e) None of these
166. Which country is largest wind power producer?  
 (a) China (b) Japan  
 (c) Brazil (d) Cuba  
 (e) None of these
167. Who has been appointed as chairman of Dronacharya Award selection committee.  
 (a) Ravi Shastri (b) Bishan Singh Bedi  
 (c) Ajitpal Singh (d) Kapil Dev  
 (e) None of these
168. Who is the present chairman of ISRO  
 (a) K.Radha Krishnan (b) Vikram Sarabhai  
 (c) Madhavan Nair (d) Satish Dawan  
 (e) None of these
169. Headquarters of NABARD is located in  
 (a) Jaipur (b) Mumbai  
 (c) Mysore (d) New Delhi  
 (e) None of these
170. Find the Public Sector Bank from the below list  
 (a) AXIS Bank (b) UCO Bank  
 (c) HDFC Bank (d) ICICI Bank  
 (e) None of these
171. Who received Rajeev Khel Ratna award for the year 2013?  
 (a) Ronjan Sodhi (b) Vijay Kumar  
 (c) Sushel Kumar (d) Saina Nehwal  
 (e) None of these
172. In previous Axis Bank is called as \_\_\_\_\_  
 (a) UTI Bank (b) IBDI Bank  
 (c) ICICI Bank (d) HDFC Bank  
 (e) None of these
173. Devdas book was written by \_\_\_\_\_  
 (a) Sharat Chandra Chattopadya  
 (b) Chetan Bhagat  
 (c) Rabindranath Tagore  
 (d) Koutilya  
 (e) None of these
174. Who received best actress Oscar Award for 2013?  
 (a) Lisa Westcott (b) Jennifer Lawrence  
 (c) Anne Hathaway (d) None of these  
 (e) None of these

175. In which country Summer Olympics 2020 will be held?  
 (a) England (b) Russia  
 (c) Germany (d) Japan  
 (e) None of these
176. Roger Federer is related to which game?  
 (a) Tennis (b) Badminton  
 (c) Polo (d) Squash  
 (e) None of these
177. Which bank has launched first equated EMI on debit cards?  
 (a) ICICI (b) HDFC  
 (c) SBI (d) Indian  
 (e) None of these
178. Which Irish author created the character Dracula?  
 (a) James Joyce (b) Oscar Wilde  
 (c) Bram Stoker (d) John Banville  
 (e) None of these
179. What is the full form of E-BAA?T?  
 (a) Elected Banking Awareness and Technology  
 (b) Electronic Budget Awareness and Technology  
 (c) Electronic Banking Awareness and Technology  
 (d) Electronic Banking Awareness and Transaction  
 (e) None of these
180. Where is first skill Development centre  
 (a) Lucknow, Uttar Pradesh  
 (b) Nasik, Uttar Pradesh  
 (c) Ujjain, Madhya Pradesh  
 (d) Jaipur, Rajasthan  
 (e) None of these
181. World diabetes day is celebrated on  
 (a) 10th December (b) 14th January  
 (c) 14th November (d) 10th November  
 (e) None of these
182. Dipika Pallikal and Joshana Chinappa are related to  
 (a) Polo (b) Tennis  
 (c) Squash (d) Badminton  
 (e) None of these
183. The Nobel Prize 2013 in Physics went to Brit Peter Higgs and  
 (a) Serge Haroche (b) David Wineland  
 (c) Adam G. Riess (d) Francois Englert  
 (e) None of these
184. Who is the head of Governance of Boards of Banks in India?  
 (a) P. J. Nayak (b) Ajay Shankar  
 (c) H. Devaraj (d) Hari Gautam  
 (e) None of these
185. Commercial paper (CP) is issued in the form of  
 (a) credit ratings (b) credit fund  
 (c) promissory notes (d) securities  
 (e) None of these
186. Which insurance company will insure under 'varishtha Pension Bima Yojana'?  
 (a) United India (b) LIC  
 (c) National Insurance (d) New India Assurance  
 (e) None of these
187. Which country will host 7th IBSA Summit?  
 (a) Japan (b) China  
 (c) India (d) Brazil  
 (e) None of these
188. BKS Iyengar who passed away recently was a renowned  
 (a) Music teacher (b) Sanskrit teacher  
 (c) Yoga teacher (d) Philosophy teacher  
 (e) None of these
189. Where will 2015 BRICS Summit will be held?  
 (a) Durban, South Africa (b) New Delhi, India  
 (c) Sanya, China (d) Ufa, Russia  
 (e) None of these
190. Ken-Betwa river link will benefit which two states?  
 (a) UP & Rajasthan (b) UP & MP  
 (c) UP & Haryana (d) MP & Bihar  
 (e) None of these
191. Who got Fields Medal by International Mathematical Union (IMU)?  
 (a) Cedric Villani (b) Elon Lindenstrass  
 (c) S. Smirnov (d) Manjul Bhargava  
 (e) None of these
192. How much capital is to be infused in banks to meet Basel-III norms by 2018 as per union budget?  
 (a) ₹2.50 lakh crore (b) ₹2.60 lakh crore  
 (c) ₹2.40 lakh crore (d) ₹2.30 lakh crore  
 (e) None of these
193. What is the full form of AIMA?  
 (a) All India Management Association  
 (b) All India Monetary Association  
 (c) All India Money Association  
 (d) All India Managing Association  
 (e) None of these
194. Which of the following feature of RTGS is not true?  
 (a) It is used for high-value transactions  
 (b) It is used when payments need to be settled urgently  
 (c) It is usually operated by a country's central bank  
 (d) It is used for small transactions  
 (e) None of these
195. In which state Rongali Bihu is celebrated?  
 (a) Odisha (b) Assam  
 (c) Manipur (d) Bihar  
 (e) None of these
196. Which company has established 1200 megawatt Lanco power plant in Vidupai?  
 (a) JSW Energy (b) TNA  
 (c) Adani Group (d) Jindal Brothers  
 (e) None of these
197. Which is the capital of Australia?  
 (a) Vienna (b) Canberra  
 (c) Cairo (d) Baku  
 (e) None of these
198. What is full form of NEFT?  
 (a) National Evaluation Fund Transfer  
 (b) National Electronic Funds Transfer  
 (c) National Electronic Financial Transaction  
 (d) National Electronic Fund Transaction  
 (e) None of these
199. Which committee permits NBFCs to work as Business correspondents of banks?  
 (a) Ujit Patel Committee  
 (b) Deepak Mohanty Committee  
 (c) Nachiket Mor Committee  
 (d) Vijay Kelkar Committee  
 (e) None of these
200. A bank can be started without the permission of RBI in which part of India?  
 (a) South eastern part (b) North eastern part  
 (c) North western part (d) South western part  
 (e) None of these

# HINTS & SOLUTIONS

1. (b) Here every alphabet is substituted by one less than its numerical equivalent.  
*i.e.*  $A = 0, B = 2 - 1 = 1, C = 3 - 1 = 2$  etc.  
 MONKEY = 12141310424  
 Hence option (b)

2 – 6 :

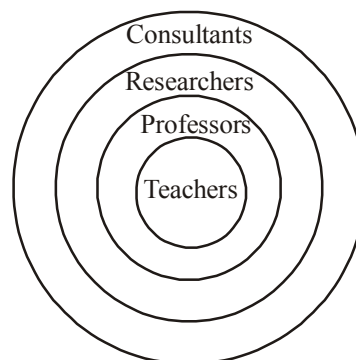
Given information can be summarised as below  
 Rock band – 26 Oct closing day (Wednesday) (×)  
 Fash – p one day prior to debate competition group song –  
 (Wednesday) (×) (Saturday) (×)  
 2 days gap- between debete and group song.

| Date       | Day       |             |
|------------|-----------|-------------|
| 19 October | Wednesday | Rock band   |
| 20 October | Thursday  | ×           |
| 21 October | Friday    | Fash-P      |
| 22 October | Saturday  | Debate      |
| 23 October | Sunday    | ×           |
| 24 October | Monday    | Street play |
| 25 October | Tuesday   | Group song  |
| 26 October | Wednesday | Folk dance  |

2. (d) 3. (d) 4. (c) 5. (c) 6. (c)
7. (a) Some boys are scholars:  
 There are two possible deductions from this statement  
 (i) All scholars are boys (*i.e.* the set of scholars is a subset of boys)  
 (ii) Some scholars are boys (*i.e.* the intersection of the set of scholars and boys is not a null set)  
 Some teachers are boys  
 There are two possible deductions from this statement  
 (i) All boys are teachers (*i.e.* the set of boys is a subset of teachers)  
 (ii) Some boys are teachers (*i.e.* the intersection of the set of teachers and boys is not a null set)  
 All scholars are observers  
 There are two possible deductions  
 (i) All observers are scholars (*i.e.* the set of observers and scholars are identical)  
 (ii) Some observers are scholars (*i.e.* the set of observers is a subset of scholars)  
 Now Analyze the conclusion:  
 (1) Some scholars are boys  
 This is true  
 (2) This may or may not be true.  
 (3) We know that either all or some observers are scholars and the intersection of the sets of scholars and boys is not a null set.  
 Hence this is true  
 (4) The intersection of set of boys and scholars in not a null set and the intersection of set of boys and teachers is not a null set.  
 But this doesn't mean that the intersection of boys

and teachers is not a null set.  
 Hence this is incorrect.  
 Hence option (a)

8. (d)

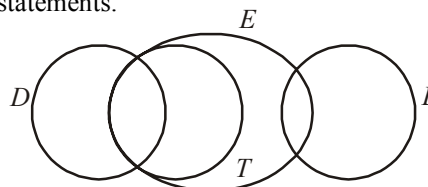


Conclusion 1 : (True)  
 Conclusion 2 : (True)  
 Conclusion 3 : (True)  
 Conclusion 4 : (False)

9. (b) I and II conclude that some drivers are engineers or some engineers are drivers.  
 None of the other combination of sentences draws a conclusion.

## ALTERNATIVE

Let us draw a Venn diagram to represent the given statements.



So we see that only 4 (some engineers are drivers) follows.

10. (d) I and II conclude that some barbers are not businessmen. *i.e.* conclusion 4.  
 II and III conclude that some traders (who are businessmen) are not fashion designer, *i.e.* conclusion 2.  
 Nothing can be said about 1 and 3.  
 So only 2 and 4 follows.
11. (a) Some boys are scholars:  
 There are two possible deductions from this statement.  
 All scholars are boys (*i.e.* the set of scholars is a subset of boys)  
 Some scholars are boys (*i.e.* the intersection of the sets of scholars and boys is not a null set)  
 Some teachers are boys  
 There are two possible deductions from this statement.  
 All boys are teachers (*i.e.* the set of boys is a subset of teachers)  
 Some boys are teachers (*i.e.* the intersection of the sets of teachers and boys is not a null set)  
 All scholars are observers.  
 There are two possible deductions from this statement.

All observers are scholars (i.e. the set of observers and scholars are identical)

Some observers are scholars (i.e. the set of observers is a subset of scholars)

Let us analyze the conclusions:

Some scholars are boys.

This is true for both the cases that have been mentioned above.

Some scholars are not boys.

This may or may not be true because there are chances that all scholars may also be boys.

Some observers are boys.

We know that either all or some observers are scholars (i.e. the set of observers is definitely a subset of the set of scholars) and the intersection of the sets of scholars and boys is not a null set.

This means that some observers will always be boys. Hence conclusion 3 is true.

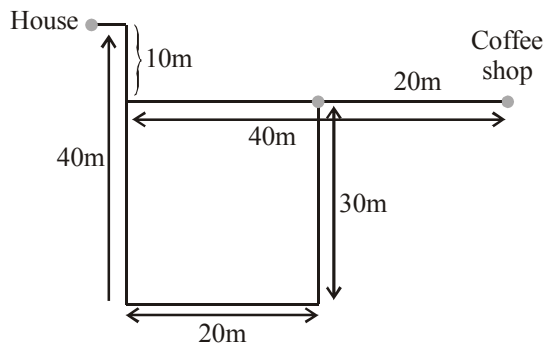
Some teachers are scholars.

The intersection of set of boys and scholars is not a null set and the intersection of set of boys and teachers is not a null set.

But this doesn't mean that the intersection of boys and teachers will also be a null set.

There may or may not be some teachers who are scholars. Thus this statement is incorrect.

12. (c) The problem can be illustrated with the help of diagram as below :



So, from the diagram we can see that he is 10 m away from his house.

So, option (c) is correct.

13. (b) A is B's mother and D is B's brother. So, D and B are A's children. B is E's wife. Hence, E and D are brother in law.

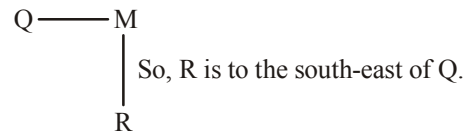
14 - 18 :

| Employee | Department     | Favourite sport |
|----------|----------------|-----------------|
| A        | Personel       | Table Tennis    |
| B        | Administration | Foot ball       |
| C        | Administration | Hockey          |
| D        | Administration | Basketball      |
| E        | Marketing      | Cricket         |
| F        | Personnel      | Volley ball     |
| G        | Marketing      | Lawn tennis     |
| H        | Marketing      | Badminton       |

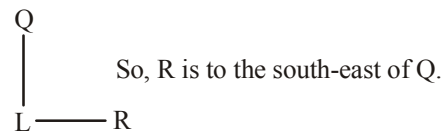
14. (c) 15. (b) 16. (e) 17. (a) 18. (d)  
19. (d) P's sex can't be determined even after joining the two statements.

20. (b) **From II :** C is older than only E. It means E is the youngest.

21. (c) **From I :**

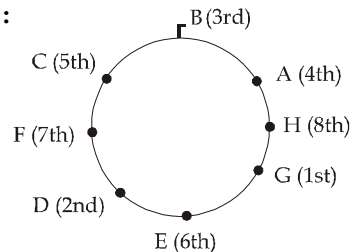


**From II :**



22. (e) **I + II :** No of children in the row =  $20 + 6 - 1 = 25$   
23. (c) **From I :** D has two sons.  
**From II :** D has two sons - T and M.  
24. (d)  $M| \geq |N$  and  $H| \leq |Q$  and  $Q| \geq |M$ . We cannot get a relationship between H, Q and M.  
25. (b)  $C| > |B$ ,  $L| < |S$  and  $S| \leq |C$ . There is no relationship between B and S. But since  $L| < |S| \leq |C|$ , then  $C| > |L$  is true.  
26. (e)  $I| \geq |H$ ,  $E| > |F$  and  $I| = |F$ . We get  $E| > |I$ , hence I is wrong, also  $E| > |I| \geq |H$  hence  $E| > |H$ .  
27. (c)  $V| = |O$ ,  $R| \geq |V$  and  $O| \geq |B$ . Hence  $R| \geq |V| = |O| \geq |B$ . Either I or II is true.  
28. (d)  $L| > |U$ ,  $T| = |L$  and  $U| \leq |W$ . We cannot get a relationship between T and W hence I is wrong. II may or may not be true.

29-33 :



29. (d) None is true  
30. (d) B  
31. (d) Three (H, G, E)  
32. (b) D studies in std. 2.  
33. (c) H and the student of std. 6.

34-37 :

In the first statements, the code digit '1' as well as the word 'the' occurs twice. So, '1' is the code for 'the'.

In the first and fourth statements, the common code digits are '1' and '3', and the common words are 'the' and 'dog'. Since '1' stands for 'the', so '3' is the code for 'dog'.

Thus, in the fourth statement, '4' is the code for 'ran'.

In the second and third statements the common code digits are '1' and '6' and the common words are 'the' and 'cat'. Since 1 stands for the. So, b is the code for 'cat'.

In the first and third statements, the common code digits are '1', '6' and '2' and the common words are 'the', 'brown' and 'cat'. Since '1' and '6' stand for 'the' and 'cat' respectively, so '2' is the code for 'brown'.

Thus, in the third statement, '7' is the code for 'was'.

In the first and second statements, the common code digits are '1', '6'

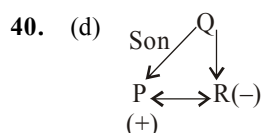
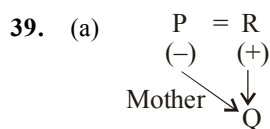
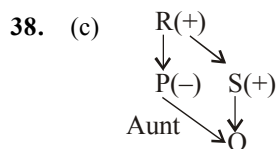
and '8' and the common words are 'the', 'cat' and 'frightened'. Since '1' and '6' stand for 'the' and 'cat' respectively, so '8' is the code for 'frightened'.

Thus, in the second statement, '5' is the code for 'away'.

34. (c) 35. (d) 36. (b) 37. (a)

38-40 :

| Symbol | — | Relation |
|--------|---|----------|
| +      | → | Father   |
| —      | → | Wife     |
| ×      | → | Brother  |
| ÷      | → | Daughter |



41. (d) Series is -99, -89, -79, -69, -59.  
 42. (a) Series is  $\times 1 + 11, \times 2 + 21, \times 3 + 31, \times 4 + 41$ .  
 43. (b) Series is  $+ 11^2, + 10^2, + 9^2, + 8^2$ .  
 44. (e) Series is  $\times 9 + 9, \times 8 + 8, \times 7 + 7, \times 6 + 6$ .  
 45. (a) Series is +91, +81, +71, +61.  
 46. (d) 25% of  $84 \times 24\%$  of 85 = ?  
 $21 \times 204 = ?$   
 $428.4 = ?$

47. (b)  $\frac{64 \times 16}{256} = 4^{(?-3)} = 4 = 4^{(?-3)} = ? - 3 = 1$

48. (c)  $25 \times 124 + 389 \times 15 = 3100 + 5835 = 8935$

49. (b)  $? = \frac{60}{100} \times \left( \frac{2920}{13} + \frac{10375}{18} \right)$   
 $\approx \frac{60}{100} \times (225 + 575) = \frac{60 \times 800}{100} = 480$

50. (e)  $7365 + 29.16 + \sqrt{?} = 7437.16$   
 $\sqrt{?} = 473.16 - 7394.16$   
 $\sqrt{?} = 43 = 1849$

51. (b) Average selling price  $= \frac{10000000}{1000} = 10,000$

Selling price of TV 21"  $= \frac{20 \times 10000000 \times 100}{100 \times 25 \times 1000}$   
 $= 8,000$

Selling price of TV 17"  $= \frac{60 \times 10000000 \times 100}{100 \times 40 \times 1000}$   
 $= 15,000$

Selling price of TV 25"  $= \frac{15 \times 10000000 \times 100}{100 \times 25 \times 1000} = 6000$

Selling price of TV 29"  $= \frac{5 \times 10000000 \times 100}{100 \times 100 \times 1000} = 5000$

Hence, selling price of TV 17" was greater than the average selling price.

52. (c) Selling price of TV 29"

$= \frac{5 \times 10000000 \times 100}{100 \times 10 \times 1000} = 5,000$

Cost price of a TV 29" = 4000

Profit = 5000 - 4,000 = 1,000

Total profit generated by the TV 29"

$= \frac{1,000 \times 10 \times 1000}{100} = 1,00,000$

53. (b) Selling price of a TV 25"

$= \frac{15 \times 10000000 \times 100}{100 \times 25 \times 1000} = 6,000$

Cost price of a TV 25" = 3,900

Profit per unit = 6,000 - 3,900 = 2,100

Profit %  $= \frac{2,100 \times 100}{3,900} = 53.84\%$

54. (d) % Profit on 25" = 53.84 %

% Profit on 29"  $= \frac{1,000 \times 100}{4,000} = 25\%$

% Profit on 21"  $= \frac{4,500 \times 100}{35,000} = 128.57\%$

% Profit on 17"  $= \frac{11,800 \times 100}{3,200} = 368.75\%$

Hence, the maximum percentage profit was for the model TV 17".

55. (a) Total profit earned by the company  
 $= \text{Total sales value} - \text{Manufacturing cost}$   
 $= 1,00,00,000 - \{(4,000 \times 100) + (3,900 \times 250) + (3,500 \times 250) + (3,200 \times 400)\}$   
 $= 1,00,00,000 - 35,30,000 = 6.47 \text{ millions}$

56. (d) Total value of the quantity sold for item D  
 $= \frac{40 \times 150}{100} \times \frac{12.5 \times 90}{100} \times 100 = 60 \times 11.25 \times 100$   
 $= ₹ 67500$

57. (e) Average price per kg. of items A, B and C  
 $= \frac{(17.5 + 10 + 7.5)}{3} = \frac{35}{3} = ₹ 11.667 \approx 10.50 \text{ (approx)}$

58. (a) Total value of quantity sold for item E =  $15 \times 25 \times 100 = 37500$

Total value of quantity sold for item F  
 $= 10 \times 35 \times 100 = 35000$

Required ratio = 37500 : 35000 = 15 : 14

59. (e) Total value of the quantity sold for item C  
 $= 45 \times 100 \times 7.50 = 33750$   
 Total value of the quantity sold for item E

$$= 22.5 \times 100 \times 15 = 33750$$

$$\therefore \text{Required percentage} = \frac{33750}{33750} \times 100 = 100\%$$

60. (d) Required price

$$= 20 \times 100 \times \frac{120}{100} \times \frac{17.5 \times 120}{100} = 2400 \times 21 = ₹ 50400$$

61. (a) The two years in which the capacities were augmented in all the sectors are 2006 and 2011 because in these years there is an increment in all of them.

62. (d) % Increase in Hydel capacity over that of the previous years is in all the years is as follows :

$$\text{in 2004} = \frac{6610 - 6390}{6390} \times 100 = 3.44\%$$

$$\text{in 2005} = \frac{6780 - 6610}{6610} \times 100 = 2.57\%$$

$$\text{in 2006} = \frac{6965 - 6780}{6780} \times 100 = 2.72\%$$

$$\text{in 2007} = \frac{7530 - 6965}{6965} \times 100 = 8.1\%$$

$$\text{in 2008} = \frac{8500 - 7530}{7530} \times 100 = 12.88\%$$

$$\text{in 2009} = \frac{9200 - 8500}{8500} \times 100 = 8.2\%$$

$$\text{in 2010} = \frac{9880 - 9200}{9200} \times 100 = 7.39\%$$

$$\text{in 2011} = \frac{10200 - 9880}{9880} \times 100 = 3.2\%$$

$$\text{in 2012} = \frac{10450 - 10200}{10200} \times 100 = 2.4\%$$

$$\text{in 2013} = \frac{11000 - 10450}{10450} \times 100 = 5.2\%$$

From above it is obvious that the % increase is maximum in 1995.

63. (b) % Share of nuclear power in the total power capacity

$$\text{in 2013} = \frac{800}{30800} \times 100 = 2.597\%$$

64. (b) Total power generated

$$= \frac{40}{100} \times 15200 + \frac{50}{100} \times 10200 + \frac{90}{100} \times 800$$

$$= 6080 + 5100 + 720 = 11900 \text{ MW}$$

65. (d) In 2003, the % share of thermal in total installed capacity

$$= \frac{7900}{14710} \times 100 = 53.70 \approx 54\%$$

66. (d) % Growth in installed thermal capacity between 2004 and 2012

$$= \frac{16700 - 8200}{8200} \times 100 = 103.65\%$$

67. (c) Let the radius of the base be  $5k$  and  $12k$  respectively

$$\therefore \frac{\text{Total surface area of the cylinder}}{\text{Total surface area of the cone}}$$

$$= \frac{2\pi r \times h + 2\pi r^2}{\pi r \sqrt{r^2 + h^2} + \pi r}$$

$$= \frac{2h + 2r}{\sqrt{r^2 + h^2} + r} + \frac{24k + 10k}{\sqrt{25k^2 + 144k^2} + 5k}$$

$$= \frac{34k}{13k + 5k} = \frac{34k}{18k} = \frac{17}{9} \text{ or } 17 : 9$$

68. (c) Let the cost price of manufactures is  $= P$

$$\text{Selling price of manufacturer} = P + P \times \frac{18}{100} = \frac{59P}{50}$$

$$\text{Wholesaler selling price} = \frac{59P}{50} + \frac{59P}{50} \times \frac{20}{100}$$

$$= \frac{59P}{50} + \frac{59P}{250} = \frac{354P}{250}$$

$$\text{Retailer selling price} = \frac{354P}{250} + \frac{354P}{250} \times \frac{25}{100}$$

$$= \frac{354P}{250} + \frac{177P}{500} = \frac{805P}{500}$$

$$\text{Now, } \frac{805P}{500} = 30.09$$

$$\Rightarrow P = 17$$

*Shortcut*

$$P = \left( \frac{100}{118} \times \frac{100}{120} \times \frac{100}{125} \times 30.09 \right) = 17$$

69. (c) A makes 1 rev. per sec

$$B \text{ makes } \frac{6}{10} \text{ rev per sec}$$

$$C \text{ makes } \frac{4}{10} \text{ rev. per sec}$$

In other words A, B and C take  $1, \frac{5}{3} \& \frac{5}{2}$  seconds to complete one revolution.

$$\text{L.C.M of } 1, \frac{5}{3} \& \frac{5}{2} = \frac{\text{L.C.M. of } 1, 5, 5}{\text{H.C.F. of } 1, 3, 2} = 5$$

Hence, after every 5 seconds the red spots on all the three wheels touch the ground

70. (c) Let the total distance to be travelled  $= x$  km

$$\text{Speed of train} = v \text{ km/h}$$

$$\text{and time taken} = t \text{ hr.}$$

$$\frac{150}{v} + \frac{x - 150}{\left( \frac{3v}{5} \right)} = (t + 8)$$

.....(1)

$$\frac{510}{v} + \frac{x-510}{\frac{3}{5}v} = (t+4)$$

.....(2)

Eq (2) – Eq (1)

$$\frac{510}{v} - \frac{150}{v} + \frac{x-510}{\frac{3}{5}v} - \frac{x-150}{\frac{3v}{5}} = -4$$

$$\frac{360}{v} - \frac{360 \times 5}{3v} = -4 \Rightarrow v = 60 \text{ km/hr.}$$

$$t = \frac{x}{60}$$

Put in eqn (1)

$$\frac{150}{60} + \frac{x-150}{\frac{3 \times 60}{5}} = \left( \frac{x}{60} + 8 \right)$$

$$\frac{5}{2} + \frac{x-150}{36} = \frac{x}{60} + 8$$

$$\frac{x-150}{36} - \frac{x}{60} = 8 - \frac{5}{2} = \frac{11}{2}$$

$$\frac{10x - 1500 - 6x}{360} = \frac{11}{2}$$

$$\Rightarrow 4x - 1500 = \frac{360 \times 11}{2} = 1980 \Rightarrow 4x = 3480$$

$$x = \frac{3480}{4} \text{ km} = 870 \text{ km}$$

71. (c) Let the total investment be ₹x.

Then, 20% of x = 98000

$$\Rightarrow x = \left( \frac{98000 \times 100}{20} \right) = 490000.$$

Let the capitals of P, Q and R be ₹5x, ₹6x and ₹6x respectively. Then,

$$(5x \times 12) + (6x \times 12) + (6x \times 6) = 490000 \times 12$$

$$\Rightarrow 168x = 490000 \times 12 \Rightarrow x = \left( \frac{490000 \times 12}{168} \right) = 35000.$$

$$\therefore \text{R's investment} = 6x = ₹(6 \times 35000) = ₹210000.$$

72. (b) A's one day's work =  $\frac{1}{8}$  th work

$$B's \text{ one day's work} = \frac{1}{3} \text{rd work}$$

$$\therefore A's 4 \text{ day's work} = 4 \times \frac{1}{8} = \frac{1}{2} \text{nd work}$$

$$\therefore \text{In next two days, total wall} = \frac{1}{2} + 2 \left( \frac{1}{8} \right) = 2 \left( \frac{1}{3} \right)$$

$$= \frac{1}{12} \text{th wall}$$

$$\text{Remaining wall} = 1 - \frac{1}{12} = \frac{11}{12} \text{th}$$

Now,  $\frac{1}{8}$  th wall is built up by A in one day.

$$\therefore \frac{11}{12} \text{th wall is built up by A in } 8 \times \frac{11}{12} = 7\frac{1}{3} \text{ days.}$$

73. (d) Let the mother's age be y years.

$$\therefore \text{The age of father} = (y + 9) \text{ years}$$

$$\text{The age of son} = \frac{y}{2} \text{ years}$$

$$\text{The age of daughter} = \left( \frac{y}{2} - 7 \right) \text{ years}$$

Now according to the given condition,

$$(y + 9) = 3 \left( \frac{y}{2} - 7 \right)$$

$$\Rightarrow y + 9 = \frac{3y - 42}{2}$$

$$\Rightarrow 2y + 18 = 3y - 42$$

$$\Rightarrow y = 60 \text{ years}$$

74. (a) Total number of caps = 12

$$\text{Total result } n(S) = {}^{12}C_4.$$

$$n(S) = \frac{12!}{4! \times 12! - 4} = \frac{12 \times 11 \times 10 \times 9 \times 8!}{4 \times 3 \times 2 \times 1 \times 8!} = 5 \times 99$$

$n(E_1)$  = Out of 5 caps, number of ways to not pick a green cap =  ${}^5C_0$ .

$n(E_2)$  = Out of 7 caps, number of ways to pick 4 caps

$$= {}^7C_4 = \frac{7!}{4! \times 7! - 4} = \frac{7 \times 6 \times 5 \times 4 \times 3!}{4 \times 3 \times 2 \times 1 \times 3!} = 35$$

$$p(E) = \frac{n(E_1) \times n(E_2)}{n(s)} = \frac{1 \times 35}{5 \times 99} = \frac{7}{99}$$

75. (d) Total number of caps = 12

$$n(S) = {}^{12}C_3 = \frac{12!}{3! \times 12! - 3} = \frac{12 \times 11 \times 10 \times 9!}{3 \times 2 \times 1 \times 9!} = 220$$

$n(E_1)$  = Out of 4 red caps, number of ways to pick 2 caps =  ${}^4C_2$

$$= \frac{4!}{2! \times 4! - 2} = \frac{4 \times 3 \times 2 \times 1}{2 \times 1 \times 2 \times 1} = 6.$$

$n(E_2)$  = Out of 5 green caps, number of ways to pick one cap =  ${}^5C_1 = 5$

$$p(E) = \frac{n(E_1) \times n(E_2)}{n(S)} = \frac{6 \times 5}{220} = \frac{3}{22}$$

76. (b) Total number of caps = 12

$$n(S) = {}^{12}C_1 = 12$$

Out of (2 blue + 1 yellow) caps number of ways to pick one cap  $n(E) = {}^3C_1 = 3$

$$\text{Required probability } p(E) = \frac{n(E)}{n(S)} = \frac{3}{12} = \frac{1}{4}$$

77. (b) I.  $20x^2 - x - 12 = 0$

$$\Rightarrow 20x^2 - 16x - 15x - 12 = 0$$

$$\Rightarrow 4x - (5x - 4) + 3(5x - 4) = 0$$

$$\Rightarrow (5x - 4)(4x + 3) = 0$$

$$\Rightarrow 5x - 4 = 0 \text{ or } 4x + 3 = 0$$

$$\Rightarrow x = \frac{4}{5} \text{ or } \frac{-3}{4}$$

$$\begin{aligned}\text{II. } 20y^2 + 27y + 9 &= 0 \\ \Rightarrow 20y^2 + 15y + 12y + 9 &= 0 \\ \Rightarrow 5y(4y + 3) + 3(4y + 3) &= 0 \\ \Rightarrow (5y + 3)(4y + 3) &= 0\end{aligned}$$

$$\Rightarrow y = \frac{-3}{5} \text{ or } \frac{-3}{4}$$

Clearly,  $x \geq y$

78. (d) I.  $x^2 = 106 + 218 = 324$

$$\therefore x = \sqrt{324} = \pm 18$$

II.  $y^2 - 37y + 342 = 0$

$$\Rightarrow y^2 - 18y - 19y + 342 = 0$$

$$\Rightarrow y(y - 18) - 19(y - 18) = 0$$

$$\Rightarrow (y - 19)(y - 18) = 0$$

$$\Rightarrow y = 19 \text{ or } 18$$

79. (e) I.  $\frac{7}{\sqrt{x}} + \frac{5}{\sqrt{x}} = \sqrt{x}$

$$\Rightarrow 7 + 5 = \sqrt{x} \times \sqrt{x}$$

$$\Rightarrow x = 12$$

II.  $y^2 - \frac{(12)^{5/2}}{\sqrt{y}} = 0$

$$\Rightarrow y^{2+\frac{1}{2}} - (12)^{(5/2)} = 0$$

$$\Rightarrow y^{5/2} = 12^{5/2}$$

$$\Rightarrow y = 12$$

80. (c) I.  $19x + 4 = 0$

$$\Rightarrow 19x = -4$$

$$\Rightarrow x = \frac{-4}{19}$$

II.  $21y + 4 = 0$

$$\Rightarrow y = \frac{-4}{21}$$

81. (a) The passage entirely talks about the formation and existence of planets like Earth. Now, the scientists claim that they can disclose the candid creation of the universe.

82. (c) The given passage talks about the telescope named 'Chandra', to study 1400 young stars in Orion Nebula.

83. (b) The passage mentions that the young stars are surrounded by discs from which planets could condense and they tend to erupt in vast flares.

84. (b) The telescope 'Chandra' has discovered that the Orion Nebula has a number of stars, only 27 stars tend to erupt in vast flares.

85. (c) Scientists with the help of telescope 'Chandra' hoped that the stars, in the Orion may behave like the Sun. As these young stars are surrounded by discs from which planets could condense and they tend to erupt in vast flares.

86. (b) conducive

87. (d) question

88. (a) cannot

89. (c) need

90. (e) growth

91. (c) favour

92. (b) enjoys

93. (a) aid

94. (e) increased

95. (a) both

96. (a) 97. (b) 98. (a)

99. (d) Corrects the misuse of phrasal verb for noun. 'Breakout' is a phrasal verb meaning 'to start or appear suddenly' while 'out break' is a noun meaning 'sudden appearance'. A preposition or an article is used before a noun, not a verb. Use preposition 'before' in place of 'for' because a preventive measure is taken before the appearance of epidemic.

100. (c) Corrects the idiomatic error. 'Last but not least' is an idiom which means 'last but not less important than others'.

101. (b) S is the opening sentence which introduces the subject followed by Q, the pronoun subject of Q replaces the noun subject of S. This will be followed by R because the 'they' in R refers to the 'politicians' in S.

102. (d) 'B' is answering question asked in 'D' 'A' is hinting towards an alternate situation and 'C' is giving alternate example.

103. (d) 'D' is stating a fact. 'B' is supporting the argument in 'D', 'A' is highlighting what may happen if situation in 'D' is not achieved. 'C' is indicating towards that eventuality.

104. (d) 'D' is stating a perception. 'B' is adding information to this perception. 'A' is proof against this perception. 'C' is a corollary of A.

105. (b) 'B' is a statement on a trend. 'A' is cause of that change. 'D' is the result of that cause. 'C' is the ultimate result.

106. (c) Eminent British economists and political scientists have strongly attacked the tradition of budget secrecy.

107. (e) It leads to the control of public expenditure in order to set realistic taxation implications.

108. (b) He has presented the example of both, the open budget system and the secret budget system, practised by various countries and has looked into all their aspects.

109. (d) 110. (e)

111. (a) Sir Richard Clarke was the originating genius of nearly every important development in the British budgeting techniques during the last two decades.

112. (b)

113. (a) The statement goes against the idea of the passage.

114. (d) An open public debate on budget proposals should be held before introducing the appropriate bill.

115. (c) 116. (d) 117. (a) 118. (b) 119. (c)

120. (e) 121. (b) 122. (d) 123. (a) 124. (d)

125. (c) 126. (d) 127. (b) 128. (a) 129. (a)

130. (b) 131. (a) 132. (c) 133. (d) 134. (d)

135. (b) 136. (a) 137. (a) 138. (a) 139. (a)

140. (d) 141. (d) 142. (b) 143. (c) 144. (d)

145. (c) 146. (b) 147. (b) 148. (b) 149. (c)

150. (d) 151. (a) 152. (c) 153. (e) 154. (c)

155. (a) 156. (a) 157. (a) 158. (b) 159. (c)

160. (d) 161. (a) 162. (b) 163. (a) 164. (b)

165. (c) 166. (a) 167. (c) 168. (a) 169. (b)

170. (b) 171. (a) 172. (a) 173. (a) 174. (b)

175. (d) 176. (a) 177. (a) 178. (c) 179. (c)

180. (d) 181. (c) 182. (c) 183. (d) 184. (a)

185. (c) 186. (b) 187. (c) 188. (c) 189. (d)

190. (b) 191. (d) 192. (c) 193. (a) 194. (d)

195. (b) 196. (c) 197. (b) 198. (b) 199. (c)

200. (b)