

2008

(Held on 27 July 2008)

Reasoning

1. If 'white' is called 'red', 'red' is called 'blue', 'blue' is called 'yellow', 'yellow' is called 'black', 'black' is called 'green' and 'green' is called 'grey', then what is the colour of clear sky?
(A) Red (B) Blue
(C) Yellow (D) Grey
(E) None of these
2. How many meaningful English words can be made with the letters ELMA using each letter only once in each word?
(A) None (B) One
(C) Two (D) Three
(E) More than three
3. Among M, N, P, Q and T each securing different marks in a subject, N secured more than only P. T and G secured less marks than only M. Who among them secured least marks?
(A) P (B) T
(C) P or T (D) Data inadequate
(E) None of these
4. How many such pairs of letters are there in the word PRODUCE each of which has as many letters between them in the word as in the English alphabet?
(A) None (B) One
(C) Two (D) Three
(E) More than three
5. In a certain code GATHER is written as UBHQDG. How is DESIGN written in that code?
(A) EFTMFH (B) TFEHFM
(C) TFEMFH (D) TFEHJ
(E) None of these
6. How many such digits are there in the number 4251698 each of which is as far away from the beginning of the number as when the digits are arranged in ascending order?
(A) None (B) One
(C) Two (D) Three
(E) More than three
7. In a certain code 'GEAR' is written as '5914' and 'ROUTE' is written as '47289'. How is 'GATE' written in that code?
(A) 5187 (B) 5189
(C) 5289 (D) 5429
(E) None of these
8. 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) Saucer (B) Mug
(C) Pitcher (D) Jar
(E) Jug
9. What should come next in the following letter series?
B B C B C D B C D E B C D E F B C D E F
G B C D E F G H B C D E F G H
(A) I (B) B
(C) J (D) K
(E) None of these
10. 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) 169 (B) 225
(C) 289 (D) 441
(E) 255

Directions—(Q. 11–16) Study the following arrangement carefully and answer the questions given below—

B K 5 # M A 3 R % J 2 D E N @ 7 W 8 © 9 P T I
V F 6 ! H Q ★ Y 4 \$ L Z

11. Which of the following is the eighth to the right of the eleventh from the right end of the above arrangement ?
 (A) W (B) @
 (C) 5 (D) \$
 (E) None of these
12. How many such consonants are there in the above arrangement, each of which is immediately preceded by a symbol but not immediately followed by a letter ?
 (A) None (B) One
 (C) Two (D) Three
 (E) More than three
13. If all the numbers from the above arrangement are removed, which of the following will be the twelfth from the left end ?
 (A) @ (B) P
 (C) I (D) N
 (E) None of these
14. How many such symbols are there in the above arrangement, each of which is immediately followed by a number but not immediately preceded by a number ?
 (A) None (B) One
 (C) Two (D) Three
 (E) More than three
15. What should come in place of the question mark (?) in the following series based on the above arrangement ?
 K # M 3 % J D N @ W © 9 ?
 (A) T V 6 (B) T I F
 (C) F I ★ (D) F 6 Q
 (E) None of these
16. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that **does not** belong to that group ?
 (A) J 3 D (B) I 6 P
 (C) A 5 % (D) Y H \$
 (E) T © V

Directions—(Q. 17–22) In each of the questions below are given four statements followed by four conclusions numbered I, II, III & IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions

and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

17. Statements :

- All desks are pencils.
- All pencils are windows.
- All windows are doors.
- All doors are walls.

Conclusions :

- I. Some walls are windows
 - II. All desks are doors.
 - III. Some doors are desks.
 - IV. Some windows are desks.
- (A) Only I, II and III follow
 (B) Only II, III and IV follow
 (C) Only I, III and IV follow
 (D) Only I, II and IV follow
 (E) None of these

18. Statements :

- Some boxes are tablets.
- Some tablets are toys.
- All toys are jungles.
- Some jungles are trees.

Conclusions :

- I. Some trees are tablets.
 - II. Some tablets are jungles.
 - III. Some jungles are toys.
 - IV. Some toys are boxes.
- (A) None follows
 (B) Only I follows
 (C) Only II follows
 (D) Only II and III follow
 (E) Only IV follows

19. Statements :

- All blades are trains.
- Some trains are rods.
- All rods are papers.
- Some papers are windows.

Conclusions :

- I. Some windows are blades.
 - II. Some papers are trains.
 - III. Some trains are blades.
 - IV. Some papers are blades.
- (A) Only I and II follow

- (B) Only II and III follow
- (C) Only III and IV follow
- (D) Only I and III follow
- (E) None of these

20. **Statements :**

- Some chains are rings.
- Some rings are bangles.
- Some bangles are hands.
- Some hands are ears.

Conclusions :

- I. Some ears are bangles.
- II. Some bangles are chains.
- III. Some hands are rings.
- IV. No chain is bangle.

- (A) None follows
- (B) Only II follows
- (C) Only IV follows
- (D) Only either II or IV follows
- (E) Only III follows

21. **Statements :**

- All books are cards.
- Some cards are benches.
- All benches are chairs.
- Some chairs are tables.

Conclusions :

- I. Some chairs are cards.
- II. Some tables are chairs.
- III. Some cards are books.
- IV. Some chairs are benches.

- (A) Only II, III and IV follow
- (B) Only I, II and III follow
- (C) Only I, III and IV follow
- (D) All follow
- (E) None of these

22. **Statements :**

- All dolls are mats.
- No mat is sofa.
- Some sofas are rooms.
- All rooms are hills.

Conclusions :

- I. Some hills are dolls.
- II. Some rooms are dolls.
- III. Some rooms are mats.
- IV. Some hills are mats.

- (A) None follows
- (B) Only I follows
- (C) Only II follows
- (D) Only III follows
- (E) Only IV follows

Directions—(Q. 23–28) In each question below, a group of digits/ symbols is given followed by four combinations of letters lettered (A), (B), (C) and (D). You have to find out which of the combinations (A), (B), (C) and (D) correctly represents the group of digits/symbols based on the following coding system and mark the letter of that combination as your answer. If none of the four combinations correctly represents the group of digits/symbols, mark (E) i.e. 'None of these' as the answer.

Digit/Symbol :

5 2 3 % 6 @ © 9 4 \$ 1 ★ 8 7 #

Letter : N B D E U J K I A P M T R H F

Conditions :

- (i) If the first element in the group is an odd digit and the last element is an even digit, the codes for the first and the last elements are to be reversed.
- (ii) If the first element is a symbol and the last element is a digit, both are to be coded as 'Y'.
- (iii) If the first element is a digit and the last element is a symbol, both are to be coded as 'Z'.
- (iv) If both the first and the last elements are even digits, both are to be coded as the code for the first element.

- 23. 43#©16
 - (A) ADFKMU
 - (B) ADFKMA
 - (C) UDFKMU
 - (D) UDFKMA
 - (E) None of these
- 24. @92©\$5
 - (A) JIBKPN
 - (B) YIBKPY
 - (C) ZIBKPZ
 - (D) NIBKPJ
 - (E) None of these
- 25. 51%3@\$
 - (A) NMEDJP
 - (B) PMEDJN
 - (C) YMEDJY
 - (D) ZMEDJZ
 - (E) None of these
- 26. 9@2463
 - (A) IJBAUD
 - (B) DJBAUI
 - (C) IJBAUI
 - (D) DJBAUI
 - (E) None of these

27. 2#4197
 (A) BFAMIH (B) HFAMIB
 (C) BFAMIB (D) ZFAMIZ
 (E) None of these

28. 74%★28
 (A) HAETBR (B) ZAETBZ
 (C) YAETBY (D) HAETBH
 (E) None of these

Directions—(Q. 29–34) Study the following information carefully and answer the questions given below—

a, b, c, d, e, f, g, h and i are sitting around a circle facing at the centre. d is third to the left of h who is second to the left of b, a is fourth to the left of e who is second to the right of d. c is third to the right of h. i is not an immediate neighbour of d. g is not an immediate neighbour of e.

29. Who is fourth to the left of f ?
 (A) e (B) c
 (C) a (D) Data inadequate
 (E) None of these
30. Who is second to the right of g ?
 (A) f (B) e
 (C) c (D) Data inadequate
 (E) None of these
31. What is c's position with respect to e ?
 (1) Fifth to the right (2) Fifth to the left
 (3) Fourth to the right (4) Fourth to the left
 (A) (1) only (B) (4) only
 (C) (1) and (2) only (D) (1) and (4) only
 (E) None of these
32. Who is fourth to the left of g ?
 (A) b (B) h
 (C) i (D) e
 (E) None of these
33. In which of the following pairs is the first person sitting to the immediate right of the second person ?
 (A) df (B) fe
 (C) gd (D) ag
 (E) None of these
34. Who is to the immediate left of e ?
 (A) d (B) f
 (C) h (D) Data inadequate
 (E) None of these

Directions—(Q. 35–40) In the following questions, the symbols @, \$, %, © and ★ are used with the following meaning as illustrated below—

'P © Q' means 'P is not smaller than Q'.

'P ★ Q' means 'P is neither greater than nor equal to Q'.

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

'P % Q' means 'P is neither greater than nor smaller than Q'.

'P @ Q' means 'P is neither smaller than nor equal to Q'.

35. **Statements :**

F % I, I @ B, B © M, M \$ K

Conclusions : I. K % B

II. K @ B

III. M ★ F

IV. B ★ F

- (A) Only III and IV are true
 (B) Only I and II are true
 (C) Only II and III are true
 (D) All are true
 (E) None of these

36. **Statements :**

K % M, M ★ N, N © R, R @ T

Conclusions : I. T ★ N

II. R \$ M

III. N @ K

IV. N © K

- (A) Only I and II are true
 (B) Only I and III are true
 (C) Only II and III are true
 (D) Only III and IV are true
 (E) None of these

37. **Statements :**

H @ J, J ★ B, B \$ N, N ★ V

Conclusions : I. B @ H

II. V @ B

III. J ★ V

IV. J ★ N

- (A) Only I, II and III are true
 (B) Only II, III and IV are true
 (C) Only I, II and IV are true
 (D) Only I, III and IV are true
 (E) None of these

38. **Statements :**

H \$ F, F @ B, B © D, D % W

- Conclusions :** I. D ★ H
 II. W \$ B
 III. H ★ B
 IV. D ★ F

- (A) Only I and III are true
 (B) Only II and III are true
 (C) Only II and IV are true
 (D) All are true
 (E) None of these

39. **Statements :**

M © T, T % R, R @ F, H ★ F

- Conclusions :** I. H ★ R
 II. R \$ M
 III. M @ F
 IV. M @ H

- (A) Only I, II and III are true
 (B) Only II, III and IV are true
 (C) Only I, II and IV are true
 (D) Only I, III and IV are true
 (E) All are true

40. **Statements :**

B ★ D, D @ H, H % W, W © M

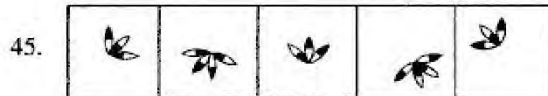
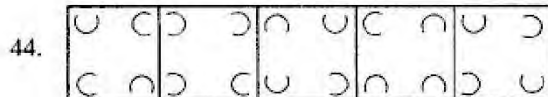
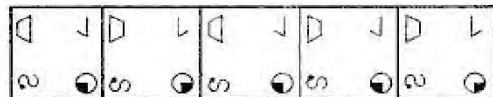
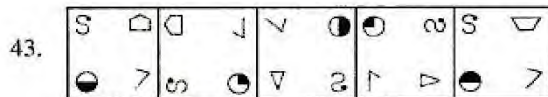
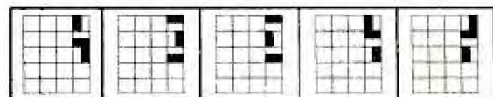
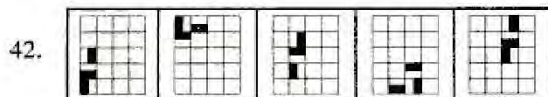
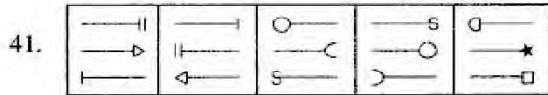
- Conclusions :** I. B @ W
 II. D @ W
 III. M \$ H
 IV. D @ M

- (A) Only I, II and III are true
 (B) Only I, II and IV are true
 (C) Only I, III and IV are true
 (D) Only II, III and IV are true
 (E) All are true

Directions—(Q. 41–45) In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued ?

Problem Figures

Answer Figures



Directions—(Q. 46–50) The second figure in the first unit of the problem figures bears a certain relationship to the first figure. Similarly one of the figures in the answer figures bears the **same relationship** to the first figure in the second unit of the problem figures. You are, therefore, to locate the figure which would fit the question mark ?

Problem Figures

46.

47.

48.

49.

50.

Answer Figures

(A)

(A)

(A)

(A)

(A)

Answers with Hints

- (C) The colour of sky is blue and blue is called yellow. Hence the colour of sky is yellow.
- (E) Meaningful words are : MEAL, MALE, LAME and LEAM
- (A) $N > P$ and $M > T, G$
 $\therefore P$ secured the least marks.
- (B) P R O D U C E
 $\underbrace{\hspace{1.5cm}}_{R-U}$

5. (C) As,

G	$\xrightarrow{+1}$	U	Similarly,	D	$\xrightarrow{+1}$	T
A	$\xrightarrow{+1}$	B		E	$\xrightarrow{+1}$	F
T	$\xrightarrow{+1}$	H		S	$\xrightarrow{+1}$	E

H	$\xrightarrow{-1}$	Q		I	$\xrightarrow{-1}$	M
E	$\xrightarrow{-1}$	D		G	$\xrightarrow{-1}$	F
R	$\xrightarrow{-1}$	G		N	$\xrightarrow{-1}$	H

6. (C) $4 \begin{matrix} 2 \\ 2 \end{matrix} 5 \begin{matrix} 1 \\ 4 \end{matrix} \begin{matrix} 6 \\ 6 \end{matrix} 9 \begin{matrix} 8 \\ 8 \end{matrix}$

7. (B) $G \rightarrow 5$ and $R \rightarrow 4 \therefore G \rightarrow \begin{matrix} 5 \\ 1 \\ 1 \\ 2 \\ 8 \\ 9 \end{matrix}$
 $E \rightarrow 9$ $O \rightarrow 7$ $A \rightarrow 1$
 $A \rightarrow 1$ $U \rightarrow 2$ $T \rightarrow 8$
 $R \rightarrow 4$ $T \rightarrow 8$ $E \rightarrow 9$
 $E \rightarrow 9$

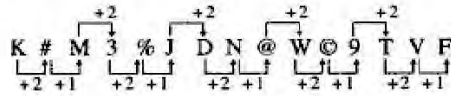
- (A) In all the rest any liquid may be filled.
- (A) B, BC, BCD, BCDE, BCDEF, BCDEFG, BCDEFGH, BCDEFGH **I**
- (E) All the rest are perfect square numbers.
- (D) 11th element from the right end is 'F' and 8th element to the right of F is \$.
- (C) % J 2 and ★ Y 4

13. (A) After removing all the numbers, we get
 B K # M A R % J D E N @ W © P T I V F H
 Q ★ Y \$ L Z

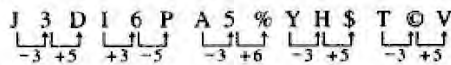
The 12th element from the left end is @.

14. (B) N @ 7

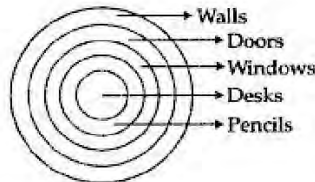
15. (E)



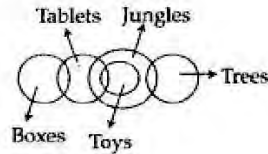
16. (C)



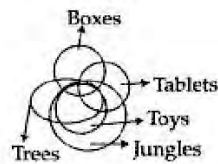
17. (E)



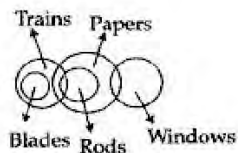
18. (D)



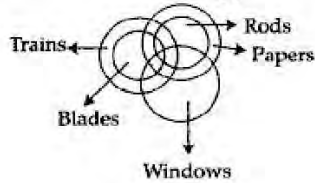
Or



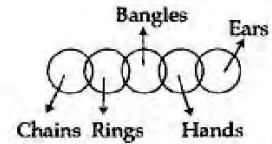
19. (B)



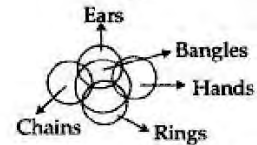
Or



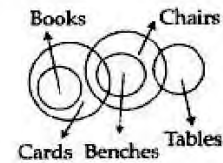
20. (D)



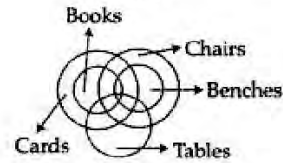
Or



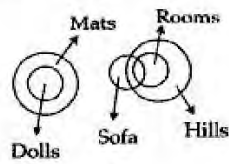
21. (D)



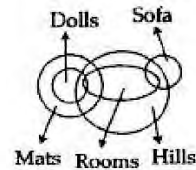
Or



22. (A)



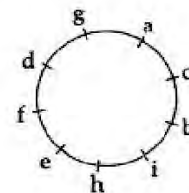
Or



23. (B) 24. (B) 25. (D) 26. (A) 27. (A)

28. (E)

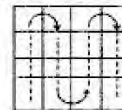
For Q. 29 to 34 :



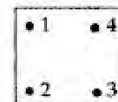
29. (B) 30. (A) 31. (E) 32. (C) 33. (E)

34. (B)
35. (A) $F \% I \rightarrow F = I,$
 $I @ B \rightarrow I > B,$
 $B \odot M \rightarrow B \geq M$
 and $M \$ K \rightarrow M \leq K$
 $\therefore F = I > B \geq M \leq K$
 I. $K \% B \rightarrow K = B$
 II. $K @ B \rightarrow K > B$
 III. $M \star F \rightarrow M < F$
 IV. $B \star F \rightarrow B < F$
36. (B) $K \% M \rightarrow K = M,$
 $M \star N \rightarrow M < N,$
 $N \odot R \rightarrow N \geq R$
 and $R @ T \rightarrow R > T$
 $\therefore K = M < N \geq R > T$
 I. $T \star N \rightarrow T < N$
 II. $R \$ M \rightarrow R \leq M$
 III. $N @ K \rightarrow N > K$
 IV. $N \odot K \rightarrow N \geq K$
37. (B) $H @ J \rightarrow H > J,$
 $J \star B \rightarrow J < B,$
 $B \$ N \rightarrow B \leq N$
 and $N \star V \rightarrow N < V$
 $\therefore H > J < B \leq N < V$
 I. $B @ H \rightarrow B > H$
 II. $V @ B \rightarrow V > B$
 III. $J \star V \rightarrow J < B$
 IV. $J \star N \rightarrow J < N$
38. (C) $H \$ F \rightarrow H \leq F,$
 $F @ B \rightarrow F > B,$
 $B \odot D \rightarrow B \geq D$
 and $D \% W \rightarrow D = W$
 $\therefore H \leq F > B \geq D = W$
 I. $D \star H \rightarrow D < H$
 II. $W \$ B \rightarrow W \leq B$
 III. $H \star B \rightarrow H < B$
 IV. $D \star F \rightarrow D < F$
39. (E) $M \odot T \rightarrow M \geq T,$
 $T \% R \rightarrow T = R,$
 $R @ F \rightarrow R > F$
 and $H \star F \rightarrow H < F$

- $\therefore M \geq T = R > F > H$
- I. $H \star R \rightarrow H < R$ (True)
 II. $R \$ M \rightarrow R \leq M$ (True)
 III. $M @ F \rightarrow M > F$ (True)
 IV. $M @ H \rightarrow M > H$ (True)
40. (D) $B \star D \rightarrow B < D,$
 $D @ H \rightarrow D > H,$
 $H \% W \rightarrow H = W$
 and $W \odot M \rightarrow W \geq M$
 $\therefore B < D > H = W \geq M$
 I. $B @ W \rightarrow B > W$ (False)
 II. $D @ W \rightarrow D > W$ (True)
 III. $M \$ H \rightarrow M \leq H$ (True)
 IV. $D @ M \rightarrow D > M$ (True)
41. (E) From problem figure 1 to 2 and 3 to 4, all designs reversing horizontally move one step ahead downward and the design at the bottom reaches to the top. Using the same rule from problem figure 5 to 6, the answer figure (E) is obtained.
42. (C) In each successive problem figure designs move in the following order and each design moves 3 steps ahead, while the design itself moves each time to the next arm



- (False)
 (True)
 (True)
 (True)
43. (D) From problem figure 1 to 2 and 3 to 4, designs move one step ahead anticlockwise, and takes changes as below—
 $\text{S} \rightarrow$ moves 90° anticlockwise
 $\text{O} \rightarrow$ moves 90° anticlockwise and
 $7 \rightarrow$ rotating 45° anticlockwise, reverses vertically
 $\square \rightarrow$ rotates 90° anticlockwise
- (False)
 (True)
 (False)
 (True)
44. (B) In each successive problem figure, the small semi-circle changes its position as following :



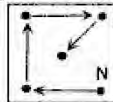
Semi-circle 1. Rotates through 90° anticlockwise in each next P.F.

Semi-circle 2. From 1 to 2 reverses then from 2 to 3 rotates through 90° clockwise, again the same rule continues.

Semi-circle 3. From 1 to 2 rotates 90° anticlockwise then from 2 to 3 reverses, again the same rule continues.

Semi-circle 4. From 1 to 2 reverses then from 2 to 3 rotates 90° clockwise again the same rule continues.

45. (E) From problem figure 1 to 2, whole design rotates through 180° and a new leaf reproduces and the inner half part of the outer leaves and outer half part of the inner leaves become black. From problem figure 3 to 4, whole design rotates through 180° and new leaf reproduces. But now outer half part of outer leaves and inner half part of the inner leaves become black, so now alike the problem figure 1 to 2, there will be changed from problem figure 5 to 6. Thus, the answer figure (E) is obtained.
46. (E) From problem figure 1 to 2, designs take change in the following order. In which triangular design rotates through 45°



anticlockwise only. While all the rest designs rotate through 90° clockwise, and a new design occurs at the place of N. Applying the

same rule, with problem figure 3, the answer figure (E) is obtained.

47. (D) From problem figure 1 to 2, whole coloured leaf rotates through 135° anticlockwise and the outer half coloured leaf rotates through 135° clockwise. While inner half coloured leaf rotates through 45° clockwise. Using the same rule with problem figure 3, the answer figure (D) is obtained.
48. (C) From problem figure 1 to 2, design '9' rotating through 90° anticlockwise, moves one arm ahead. And design '—' rotating 90° anticlockwise then reversing moves one arm ahead. Doing the same rule with problem figure 3, the answer figure (C) is obtained.
49. (A) From problem figure 1 to 2, designs move one arm ahead clockwise. In which design '<<' rotates through 135° anticlockwise, and the design '>', 180° and '&' 90° and design 'v' rotates through 180° . Applying the same rule with problem figure 3, the answer figure (A) is obtained.
50. (A) From problem figure 1 to 2, the design at the bottom rotating through 90° clockwise situates at right most, and the middle design rotates through 90° anticlockwise situates at the left most and the top most design rotating through 90° anticlockwise situates in the middle. Using the same rule with problem figure 3, the answer figure (A) is obtained.

Quantitative Aptitude

Directions—(Q. 1 to 10) What should come in place of questions mark (?) in the following question ?

- $(98)^2 + (?)^2 = (149)^2 - (78)^2 - 737$
(A) 6084 (B) 76
(C) 82 (D) 6724
(E) None of these
- $(45)^{62} \times (45)^{-56} = ?$
(A) 45^6 (B) 45^4
(C) 45^{-6} (D) 45^{-10}
(E) None of these
- $(8.34\% \text{ of } 793) - (12.51\% \text{ of } 286) = ?$
(A) 33.3756 (B) 36.3657
(C) 30.3576 (D) 28.3675
(E) None of these
- $48 + 8 \times 0.75 - 5 = ?$
(A) 22 (B) 36
(C) 49 (D) 56
(E) None of these
- $18.657 - 7.549 - 4.111 - 1.630 = ?$
(A) 4.673 (B) 6.893
(C) 3.562 (D) 5.367
(E) None of these

6. $555.05 + 55.50 + 5.55 + 5 + 0.55 = ?$
 (A) 621.65 (B) 655.75
 (C) 634.85 (D) 647.35
 (E) None of these
7. $621 \times ? \times 6 = 152766$
 (A) 39 (B) 43
 (C) 47 (D) 51
 (E) None of these
8. $[(40)^3 + 80 \times 16] \div 25 = 32 \times ?$
 (A) 12 (B) 15
 (C) 18 (D) 21
 (E) None of these
9. $6784 + 2213 + 844 - ? = 6743 + 775$
 (A) 2332 (B) 2323
 (C) 2343 (D) 2442
 (E) None of these
10. $11960 \div ? = 65 \times 23$
 (A) 6 (B) 11
 (C) 3 (D) 8
 (E) None of these
11. One-fifth of a number is 62. What will 73% of that number be ?
 (A) 198.7 (B) 212.5
 (C) 226.3 (D) 234.8
 (E) None of these
12. The simple interest accrued on an amount of Rs. 20000 at the end of three years is Rs. 7200. What would be the compound interest accrued on the same amount at the same rate in the same period ?
 (A) Rs. 8342.36 (B) Rs. 8098.56
 (C) Rs. 8246.16 (D) Rs. 8112.86
 (E) None of these
13. Which number should replace both the question marks in the following equation ?

$$\frac{?}{1089} = \frac{64}{?}$$

 (A) 264 (B) 258
 (C) 236 (D) 244
 (E) None of these
14. If the numerator of a fraction is increased by 300% and the denominator is increased by 500%. The resultant fraction is $\frac{5}{12}$. What was the original fraction ?
 (A) $\frac{8}{5}$ (B) $\frac{5}{11}$
 (C) $\frac{12}{5}$ (D) $\frac{5}{7}$
 (E) None of these
15. What is 25% of 75% of $\frac{3}{5}$ th of 4240 ?
 (A) 595 (B) 424
 (C) 348 (D) 477
 (E) None of these
16. 12 men can do a piece of work in 10 days. How many men would be required to do the same work in 8 days ?
 (A) 14 (B) 18
 (C) 16 (D) 12
 (E) None of these
17. A sum of money is divided among A, B, C and D in the ratio of 3 : 5 : 9 : 13 respectively. If the share of C is Rs. 2412 more than the share of A, then what is the total amount of money of B and D together ?
 (A) Rs. 4422 (B) Rs. 7236
 (C) Rs. 6030 (D) Rs. 4824
 (E) None of these
18. The average age of a class of 80 girls was 20 years, the average age of 20 of them was 22 years and that of another 20 was 24 years. Find the average age of the remaining girls—
 (A) 17 years (B) 19 years
 (C) 21 years (D) 15 years
 (E) None of these
19. Ms. Pooja Pushpan invests 13% of her monthly salary, i.e., Rs. 8554 in Mediclaim Policies. Later she invests 23% of her monthly salary on Child Education Policies; also she invests another 8% of her monthly salary on Mutual Funds. What is the total annual amount invested by Ms. Pooja Pushpan ?
 (A) Rs. 28952 (B) Rs. 43428
 (C) Rs. 347424 (D) Rs. 173712
 (E) None of these
20. The profit earned after selling an article for Rs. 878 is the same as loss incurred after selling the article for Rs. 636. What is the cost price of the article ?
 (A) Rs. 797 (B) Rs. 787

- (C) Rs. 767 (D) Rs. 757
(E) None of these
21. In a class of 240 students, each student got sweets that are 15% of the total number of students. How many sweets were there ?
(A) 3000
(B) 3125
(C) 8640
(D) Cannot be determined
(E) None of these
22. If the fractions $\frac{5}{14}$, $\frac{6}{11}$, $\frac{7}{9}$, $\frac{8}{13}$ and $\frac{9}{10}$ are arranged in ascending order of their values, which one will be the fourth ?
(A) $\frac{7}{9}$ (B) $\frac{5}{14}$
(C) $\frac{8}{13}$ (D) $\frac{9}{10}$
(E) None of these
23. Sonika spent Rs. 45760 on the interior decoration for her home, Rs. 27896 on buying Air conditioner and the remaining 28% of the total amount she had as cash with her. What was the total amount ?
(A) Rs. 98540
(B) Rs. 102300
(C) Rs. 134560
(D) Cannot be determined
(E) None of these
24. The ages of Khushi and Jagriti are in the ratio of 5 : 8 respectively. After 8 years the ratio of their ages will be 3 : 4. What is the difference in their ages ?
(A) 16 years (B) 8 years
(C) 10 years (D) 12 years
(E) None of these
25. By how much is $\frac{6}{11}$ th of 506 lesser than $\frac{3}{5}$ th of 895 ?
(A) 178 (B) 219
(C) 143 (D) 261
(E) None of these
- number series which has only one number wrong by a margin of + 1 or - 1 ? The first and last numbers in the series are correct.
26. 6, 9, 18, 36, ?, 216, 660, 2323
(A) 126 (B) 96
(C) 82 (D) 108
(E) None of these
27. 8, 12, 18, 26, 40.5, 60.75, ?, 136.6875
(A) 104.125 (B) 121.125
(C) 96.125 (D) 83.125
(E) None of these
28. 4, 7, 11, 18, 28, ?, 76, 123
(A) 59 (B) 38
(C) 46 (D) 53
(E) None of these
29. 3, 10, ?, 172, 886, 5346, 37471, 299832
(A) 39 (B) 27
(C) 24 (D) 34
(E) None of these
30. 1728, 2745, 4096, 5832, ?, 10648, 13824, 17576
(A) 7098 (B) 6986
(C) 7824 (D) 8000
(E) None of these

Directions—(Q. 31 to 35) Each question below is followed by two statements (I) and (II). You are to determine whether the data given in the statement is sufficient for answering the question. You should use the data and your knowledge of Mathematics to choose between the possible answers. Give answer—

- (A) If the statement I alone is sufficient to answer the question, but the statement II alone is not sufficient.
(B) If the statement II alone is sufficient to answer the question, but the statement I alone is not sufficient.
(C) If both statement I and II together are needed to answer the question.
(D) If either the statement I alone or statement II alone is sufficient to answer the question.
(E) If you cannot get the answer from the statement I and II together, but need even more data.

Directions—(Q. 26 to 30) What will come in place of the question mark (?) in the following

31. Triangle ABC has angle BAC equal to 90° . What is the measure of angle ABC ?
 I. The angle ACB is 35°
 II. The angle CBA is 55°
32. X, Y and Z are three consecutive even numbers (not necessarily in this order). What is the sum of these numbers ?
 I. The difference between X and Z is 4
 II. One-third of Y is 14
33. What is the salary of P, in a group of P, Q, R, S, T and U, whose average salary is Rs. 35000 ?
 I. Total of the salary of Q and S is Rs. 54000
 II. Total of the salary of T and U is Rs. 58000
34. What is the rate of p. c. p. a. on an amount of Rs. 6000 deposited in a Bank ?
 I. The simple interest for four years is Rs. 3600
 II. The difference between the simple interest and compound interest is Rs. 894.0375
35. What is the number ?
 I. 20% of that number is one-fifth of that number
 II. $\frac{5}{6}$ th of that number is less by 15 of that number
- Directions—(Q. 36 to 41) What approximate value will come in place of the question-mark (?) in the following questions ?**
36. $2959.85 \div 16.001 - 34.99 = ?$
 (A) 160 (B) 150
 (C) 140 (D) 180
 (E) 170
37. $(1702 \div 68) \times 136.05 = ?$
 (A) 3500 (B) 3550
 (C) 3450 (D) 3400
 (E) 3525
38. $2950 \div 12.25 + 160 = ?$
 (A) 440 (B) 350
 (C) 380 (D) 360
 (E) 400
39. $25.05\% \text{ of } 2845 + 14.95 \times 2400 = ?$
 (A) 36700 (B) 36500
 (C) 35800 (D) 35600
 (E) 36200
40. $(186 \times 270.99) \div 40 = ?$
 (A) 1160 (B) 1200
 (C) 1300 (D) 1180
 (E) 1260
41. $424.99 \times 23.95 + 8.05 = ?$
 (A) 1300 (B) 1225
 (C) 1325 (D) 1275
 (E) 1375
42. In how many different ways can the letters of the word 'PUNCTUAL' be arranged ?
 (A) 64 (B) 40320
 (C) 960 (D) 20160
 (E) None of these
43. The diameter of a circle is equal to the perimeter of a square whose area is 3136 sq. cms. What is the circumference of the circle ?
 (A) 352 cms.
 (B) 704 cms.
 (C) 39424 cms.
 (D) Cannot be determined
 (E) None of these
44. In a three digit number the digit in the unit's place is twice the digit in the ten's place and 1.5 times the digit in the hundred's place. If the sum of the three digits of the number is 13, what is the number ?
 (A) 364 (B) 436
 (C) 238 (D) 634
 (E) None of these
45. The average of the ages of Sumit, Krishna and Rishabh is 43 and the average of the ages of Sumit, Rishabh and Rohit is 49. If Rohit is 54 years old, what is Krishna's age ?
 (A) 45 years
 (B) 24 years
 (C) 36 years
 (D) Cannot be determined
 (E) None of these
46. The compound interest accrued on an amount at the end of three years @ 15 p.c.p.a. is Rs. 6500.52. What is the amount ?
 (A) Rs. 12480 (B) Rs. 10500

- (C) Rs. 14800 (D) Rs. 13620
(E) None of these
47. Mohan decides to attend to some urgent work on a particular day in the month of August 2008. What is the probability that the day chosen by Mohan to attend to this work is a Saturday ?
- (A) $\frac{6}{31}$ (B) $\frac{4}{31}$
(C) $\frac{2}{15}$ (D) $\frac{1}{6}$
(E) None of these
48. A and B together complete a piece of work in T days. If A alone completes the work in T+3 days and B alone completes the piece of work in T+12 days, what is T ?
- (A) 3 days
(B) 12 days
(C) 9 days
(D) Cannot be determined
(E) None of these
49. The value of a machine depreciates at the rate of 12 per cent per annum. It was purchased three years ago. Its present value is Rs. 29644.032, what was the purchase price of the machine ?
- (A) Rs. 48700 (B) Rs. 43500
(C) Rs. 38900 (D) Rs. 39000
(E) None of these
50. While selling a watch, a shopkeeper gives a discount of 15%. If he gives a discount of 20%, he earns Rs. 51 less as profit. What is the original price of the watch ?
- (A) Rs. 920 (B) Rs. 985
(C) Rs. 1125 (D) Rs. 1020
(E) None of these

Answers with Explanations

1. (B) $(98)^2 + (?)^2$
 $= (149)^2 - (78)^2 - 737$
 $\therefore (?)^2 = (149)^2 - (78)^2 - 737 - (98)^2$
 $= 22201 - 6084 - 737 - 9604$
 $= 5776$
 $\therefore ? = \sqrt{5776} = 76$
2. (A) $? = (45)^{62} \times (45)^{-56}$
 $= (45)^{62-56}$
 $= (45)^6$
3. (C) $? = (8.34\% \text{ of } 793) - (12.51\% \text{ of } 286)$
 $= 66.1362 - 35.7786$
 $= 30.3576$
4. (C) $? = 48 + 8 \times 0.75 - 5$
 $= 48 + 6 - 5$
 $= 49$
5. (D) $? = 18.657 - 7.549 - 4.111 - 1.630$
 $= 5.367$
6. (A) $? = 555.05 + 55.50 + 5.55 + 5 + 0.55$
 $= 621.65$
7. (E) $? = \frac{152766}{621 \times 6}$
 $= 41$
8. (E) $32 \times ? = [(40)^3 + 80 \times 16] \div 25$
 $= \left[\frac{64000}{80} \times 16 \right] \div 25$
 $= \frac{12800}{25}$
 $\therefore ? = \frac{12800}{25 \times 32} = 16$
9. (B) $? = 6784 + 2213 + 844 - 6743 - 775$
 $= 2323$
10. (D) $\frac{11960}{?} = 65 \times 23$
 $\therefore ? = \frac{11960}{65 \times 23} = 8$
11. (C) Let the number be x.
 $\frac{1}{5} \text{ of } x = 62$
 $\therefore x = 62 \times 5 = 310$
 $\therefore 73\% \text{ of } x = \frac{310 \times 73}{100}$
 $= 226.3$
12. (B) Rate = $\frac{7200 \times 100}{20000 \times 3} = 12\%$
 $\therefore \text{C.I.} = 20000 \left[\left(1 + \frac{12}{100} \right)^3 - 1 \right]$
 $= 20000 \left(\frac{28}{25} \times \frac{28}{25} \times \frac{28}{25} - 1 \right)$
 $= 20000 \left[\frac{21952 - 15625}{15625} \right]$
 $= \frac{20000 \times 6327}{15625}$
 $= \text{Rs. } 8098.56$

$$13. (A) \quad \frac{?}{1089} = \frac{64}{?}$$

$$\therefore ?^2 = 1089 \times 64 = 69696$$

$$\therefore ? = 264$$

14. (E) Let the original fraction be $\frac{x}{y}$

$$\therefore \frac{x+3x}{y+5y} = \frac{5}{12}$$

$$\Rightarrow \frac{4x}{6y} = \frac{5}{12}$$

$$\therefore \frac{x}{y} = \frac{5}{12} \times \frac{6}{4} = \frac{5}{8}$$

$$15. (D) ? = \frac{25}{100} \text{ of } \frac{75}{100} \text{ of } \frac{3}{5} \text{ of } 4240$$

$$= 477$$

Men	Days
12 ↑	10 ↓
x ↑	8 ↓

$$\therefore x : 12 :: 10 : 8$$

$$\therefore x = \frac{12 \times 10}{8} = 15 \text{ Men}$$

17. (B) Let the total sum be Rs. x

$$\therefore \frac{9x}{30} = \frac{3x}{30} + 2412$$

$$\therefore \frac{6x}{30} = 2412$$

$$\therefore x = \frac{2412 \times 30}{6} = 12060$$

$$\therefore \text{Share of B} = 12060 \times \frac{5}{30} = \text{Rs. } 2010$$

$$\text{and share of D} = 12060 \times \frac{13}{30} = \text{Rs. } 5226$$

$$\therefore \text{Total amount of money of B and D}$$

$$= 2010 + 5226$$

$$= \text{Rs. } 7236$$

18. (A) Total age of 80 girls
 $= 80 \times 20 = 1600$ years
 and total age of 20 girls
 $= 20 \times 22 = 440$ years
 Total age of next 20 girls
 $= 20 \times 24 = 480$ years
 \therefore Total age of remaining girls
 $= 1600 - (440 + 480)$
 $= 680$ years

and total number of remaining girls
 $= 80 - 20 - 20 = 40$
 \therefore Average of 40 girls
 $= \frac{680}{40} = 17$ years

19. (C) Let the monthly income of Pooja Pushpan be Rs. x.

$$\therefore \frac{13 \times x}{100} = 8554$$

$$\therefore x = \frac{8554 \times 100}{13} = \text{Rs. } 65800$$

Total monthly investment by Pooja Pushpan

$$= 65800 \times \left(\frac{13}{100} + \frac{23}{100} + \frac{8}{100} \right)$$

$$= 65800 \times \frac{44}{100} = \text{Rs. } 28952$$

$$\therefore \text{Annual investment by her}$$

$$= 28952 \times 12$$

$$= \text{Rs. } 347424$$

20. (D) Cost price of the article
 $= \frac{878 + 636}{2} = \frac{1514}{2}$
 $= \text{Rs. } 757$

21. (C) Total number of sweets
 $= \left(240 \times \frac{15}{100} \right) \times 240$
 $= 8640$

22. (A) $\frac{5}{14}, \frac{6}{11}, \frac{7}{9}, \frac{8}{13}$ and $\frac{9}{10}$
 $= \frac{1}{14}, \frac{1}{11}, \frac{1}{9}, \frac{1}{13}, \frac{1}{10}$
 $= \frac{1}{2.8}, \frac{1}{1.83}, \frac{1}{1.29}, \frac{1}{1.625}, \frac{1}{1.11}$

The fraction is lower whose denominator will be greater.

\therefore In ascending order

$$\frac{5}{14}, \frac{6}{11}, \frac{8}{13}, \frac{7}{9}, \frac{9}{10}$$

\therefore The fourth is $\frac{7}{9}$

23. (B) Amount spent $= (100 - 28)\% = 72\%$

$$\therefore \text{Total amount} \times \frac{72}{100}$$

$$= 45760 + 27896$$

$$\begin{aligned} \therefore \text{Total amount} &= \frac{73656 \times 100}{72} \\ &= \text{Rs. } 102300 \end{aligned}$$

24. (E) Let the ages of Khusi and Jagriti be $5x$ years and $8x$ years respectively.

$$\begin{aligned} \therefore \frac{5x + 8}{8x + 8} &= \frac{3}{4} \\ \Rightarrow 24x + 24 &= 20x + 32 \\ \Rightarrow 4x &= 8 \\ \therefore x &= 2 \\ \therefore \text{Reqd. difference} &= 10 - 16 = 6 \text{ years} \end{aligned}$$

25. (D) $\frac{3}{5}$ of 895 - $\frac{6}{11}$ of 506
 $= 537 - 276$
 $= 261$

26. (C)

$$\begin{array}{cccccccc} 6 & 10 & 18 & 36 & ? & 216 & 660 & 2323 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 0.5 + 7 & \times 1 + 8 & \times 1.5 + 9 & \times 2 + 10 & \times 2.5 + 11 & \times 3 + 12 & \times 3.5 + 13 & \end{array}$$

27. (E)

$$\begin{array}{cccccccc} 8 & 12 & 18 & 26 & 40.5 & 60.75 & 91.125 & 136.6875 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 1.5 & \times 1.5 & \times 1.5 & \times 1.5 & \times 1.5 & \times 1.5 & \times 1.5 & \times 1.5 \end{array}$$

28. (E)

$$\begin{array}{cccccccc} 4 & 7 & 11 & 18 & 28 & 47 & 76 & 123 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 4 + 7 & 7 + 11 & 11 + 18 & 18 + 29 & 29 + 47 & 47 + 76 & & \end{array}$$

29. (A) 3

$$\begin{array}{cccc} 3 & 10 & 39 & 172 \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2 + (2)^2 & \times 3 + (3)^2 & \times 4 + (4)^2 & \end{array}$$

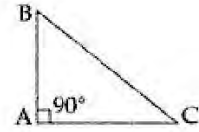
$$\begin{array}{cccc} 885 & 5346 & 37471 & 299832 \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \times 5 + (5)^2 & \times 6 + (6)^2 & \times 7 + (7)^2 & \times 8 + (8)^2 \end{array}$$

30. (D)

$$\begin{array}{cccccccc} 1728 & 2744 & 4096 & 5832 & 8000 & 10648 & 13824 & 17576 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ (12)^3 & (14)^3 & (16)^3 & (18)^3 & (20)^3 & (22)^3 & (24)^3 & (26)^3 \end{array}$$

31. (D) From I,

$$\begin{aligned} \angle ACB &= 35 \\ \therefore \angle ABC &= 180^\circ - (90^\circ + 35^\circ) \\ &= 55^\circ \end{aligned}$$



From II,

$$\angle CBA = 55^\circ = \angle ABC$$

32. (E) From I,

$$x \sim z = 4$$

From II,

$$\frac{1}{3} \text{ of } y = 14$$

$$\therefore y = 14 \times 3 = 42^\circ$$

33. (E) From I, Total salary of Q and S

$$= \text{Rs. } 54000$$

From Qs. total salary of P, Q, R, S, T and U

$$= 6 \times 35000$$

$$= \text{Rs. } 210000$$

From II, Total salary of T and U

$$= \text{Rs. } 58000$$

\therefore From I and II, together salary of P cannot be determined

34. (A) From I, Rate = $\frac{3600 \times 100}{6000 \times 4}$

From II, Rate cannot be determined

35. (B) From I,

$$\text{Number} \times \frac{20}{100} = \text{Number} \times \frac{1}{5}$$

From II,

$$\text{Number} \times \frac{5}{6} = \text{Number} - 15$$

$$\therefore \text{Number} \left(\frac{5}{6} - 1 \right) = -15$$

$$\therefore \text{Number} = \frac{-15}{\frac{-1}{6}} = 90$$

36. (B) ? $\approx 2960 \div 16 - 35$
 $\approx 185 - 35$
 ≈ 150

37. (D) ? $\approx (1702 \div 68) \times 136 - 05$
 $\approx (1700 \div 68) \times 136$
 $\approx 25 \times 136$
 ≈ 3400 (App)

38. (E) ? $\approx 2950 \div 12 - 25 + 160$
 $\approx 240 + 160$
 ≈ 400 (App)

39. (A) ? = 25.05% of 2845 + 14.95 × 2400
 = $\frac{2850}{100} \times 25 + 15 \times 2400$
 = 712 + 36000
 = 36700 (App)

40. (E) ? = $(186 \times 270.99) \div 40$
 = $\frac{186 \times 271}{40}$
 = 1260 (App)

41. (D) ? = $424.99 \times 23.95 + 8.05$
 = $425 \times 24 \div 8$
 = $425 \times \frac{24}{8}$
 = 1275 (App)

42. (D) Reqd. no. of way
 = $\frac{18}{2} = 8 \times 7 \times 6 \times 5 \times 4 \times 3$
 = 20160

43. (B) One side of the square = $\sqrt{3136} = 56$ cm
 ∴ Perimeter of the square = $4 \times 56 = 224$ cm
 ∴ Diameter of the circle = 224 cm
 ∴ Circumference of the circle = $224 \times \frac{22}{7}$
 = 704 cm

44. (B) Let the number be = $100x + 10y + z$
 ∴ $z = 2y$ and $z = 1.5x$
 ∴ $x + y + z = 13$
 $\frac{z}{1.5} + \frac{z}{2} + z = 13$
 $\frac{2z + 1.5z + 3z}{3} = 13$

$6.5z = 13 \times 3$
 ∴ $z = \frac{39}{6.5} = 6$
 ∴ Number = 436

45. (C) Total age of Sumit, Krishna and Rishabh = $3 \times 43 = 129$ years
 Total age of Sumit, Rishabh and Rohit = $3 \times 49 = 147$ years

∴ Total age of Sumit and Rishabh = $147 - 54 = 93$ years
 ∴ Age of Krishna = $129 - 93 = 36$ years

46. (A) 6500.52
 = $P \left[\left(1 + \frac{15}{100} \right)^3 - 1 \right]$
 = $P \left[\frac{23 \times 23 \times 23 - 20 \times 20}{20 \times 20 \times 20} \right]$
 = $\frac{P \times 4167}{8000}$
 ∴ $P = \frac{6500.52 \times 8000}{4167}$
 = Rs. 12480

47. (B) ∴ Reqd. probability = $\frac{4}{31}$

48. (E) $\frac{1}{T+3} + \frac{1}{T+12} = \frac{1}{T}$
 ∴ $\frac{T+12+T+3}{(T+3)(T+12)} = \frac{1}{T}$
 ∴ $(2T+15) \times T = (T+3)(T+12)$
 ∴ $2T^2 + 15T = T^2 + 15T + 36$
 ∴ $T^2 - 36 = 0$
 ∴ $T = 6$ days

49. (B) C. P. of the machine $\times \left(1 - \frac{12}{100} \right)^3$
 = Rs. 29644.032
 ∴ C. P. $\times \frac{88}{100} \times \frac{88}{100} \times \frac{88}{100}$
 = 29644.032
 ∴ C. P. of the machine = $\frac{29644.032 \times 100 \times 100 \times 100}{88 \times 88 \times 88}$
 = Rs. 43500

50. (D) Let the original price of the watch be Rs. x .

∴ $x \times \left(\frac{100-15}{100} \right) - x \times \left(\frac{100-20}{100} \right) = 51$

∴ $x \left(\frac{85-80}{100} \right) = 51$

∴ $x = \frac{51 \times 100}{5}$
 = Rs. 1020

8. The Govt. of India recently issued a notification altering constituencies in 24 States and Union territories. This is done as per the provision of which of the following Acts ?
 (A) Delimitation Act
 (B) Census Act
 (C) Indian Parliament Act
 (D) State Reorganisation Act
 (E) None of these
9. As we read very frequently in the newspapers fraudulent activities in financial world are still continuing despite various efforts made by various countries to prevent them. As an estimate by IMF, what is the probable amount derived from such illegal activities which is laundered through the world's formal financial systems every year ? **Around.....**
 (A) US \$ 500 billion (B) US \$ 800 billion
 (C) US \$ 1000 billion (D) US \$ 1250 billion
 (E) US \$ 1500 billion
10. Indian Prime Minister during his visit to Arunachal Pradesh a few months back asserted that the State is India's Land of Rising Sun. Which of the following countries did not like his statement and had raised some objection over his visit to Arunachal Pradesh which is very much a part of India ?
 (A) Myanmar (B) China
 (C) Bangladesh (D) Bhutan
 (E) Nepal
11. Which of the following is the amount of insurance cover provided to the workers of the unorganized sector under Rashtriya Swasthya Bima Yojana ?
 (A) Rs. 10,000 (B) Rs. 20,000
 (C) Rs. 30,000 (D) Rs. 40,000
 (E) Rs. 50,000
12. Which of the following is **not** one of the highlights of the Economic Survey presented in the Lok Sabha for the year 2007-08 ?
 (A) Economy has moved to 'higher growth phase'
 (B) A trend of 'Acceleration' in domestic investment and savings rate is recorded
 (C) Buoyant growth in Govt. revenue
 (D) Indian economy at market rate of exchange crossed 1 trillion US \$ in current fiscal
 (E) Net Foreign Direct Investment increased by 350%
13. Which of the following is/are correct about sub prime crisis which was in news recently ?
 1. It has reduced the flow of capital coming to Indian Stock Markets.
 2. The sub prime crisis is the major financial crisis whose origin is in Russia and Brazil. It has adversely affected the economy of Europe and USA.
 3. The crisis started when some people started trading with false Share certificates of major blue chip US companies in the stock markets.
 (A) Only 1 (B) Only 2
 (C) Only 3 (D) Both 1 and 2
 (E) None of these
14. The Prime Minister Gram Sadak Yojana (PMGSY) has a target to connect all habitations of which of the following levels with all weather roads by 2008-09 ?
 (A) 1000+ (B) 2000+
 (C) 3000+ (D) 4000+
 (E) None of these
15. As we all know the value of the Indian rupee has appreciated in the recent past. The value of the Rupee is **directly** dependent on which of the following ?
 (A) Availability of commodities in the market
 (B) VAT introduced by the Govt. on various commodities
 (C) Size of total Forex Reserve of India currently
 (D) Capital flow in the market during a given period of time
 (E) None of these
16. Which of the following banks has taken over the Centurion Bank of Punjab ?
 (A) ICICI Bank (B) IDBI Bank
 (C) HDFC Bank (D) AXIS Bank
 (E) None of these

17. As per the provision made in Bharat Nirman programme the pace of creation of irrigation facilities is required to be raised from present level of 1.42 million hectare per year in such a way that it can achieve the target fixed for the plan period. What is the new target level fixed for the same ?
- (A) 1.50 million hectares/year
(B) 1.75 million hectares/year
(C) 2 million hectares/year
(D) 2.25 million hectares/year
(E) 2.50 million hectares/year
18. Inflation has become a major area of concern in India these days. What measures do the Govt. of India/RBI normally take to control the same ?
1. Fixation of Maximum Prices of the Commodities.
 2. System of Dual prices.
 3. Increase in supply of foodgrains.
 4. Control on credit and liquidity in market.
- (A) Only 1 (B) Only 2
(C) Only 3 (D) Only 2, 3 and 4
(E) All 1, 2, 3 and 4
19. How much Education cess is being levied on all the taxes to support elementary education for the children of age group of 6-14 years under Sarva Shiksha Abhiyan (SSA) ?
- (A) 0.5% (B) 0.75%
(C) 1% (D) 1.5%
(E) 2%
20. Which of the following is/are **correct** about various concessions given in the Union Budget for 2008-09
1. Five years tax holidays for setting up hospitals in Tier II and Tier III regions for providing health care in rural areas.
 2. Commodities Transaction tax to be introduced.
 3. Banking Cash transaction tax withdrawn.
- (A) Only 1 (B) Only 2
(C) Only 3 (D) Both 2 and 3
(E) All 1, 2 and 3
21. Which of the following statements reflects the aim(s) of the Jawaharlal Nehru National Urban Renewal Mission (JNNURM) ?
1. Given focussed attention to integrated development of infrastructure in selected cities.
 2. Provide basic services to the urban poor.
 3. Scale up civic amenities and provision of utilities in urban areas.
- (A) Only 1 (B) Only 2
(C) Only 3 (D) All 1, 2 and 3
(E) None of these
22. The Press Freedom Day is observed on which of the following days ?
- (A) May 1 (B) June 1
(C) May 3 (D) June 3
(E) June 10
23. As per the decision taken by the Govt. of India now the National Rural Employment Guarantee Act is extended to all the districts of India. This means it will now be applicable to **about**.....
- (A) 200 districts (B) 300 districts
(C) 400 districts (D) 500 districts
(E) 600 districts
24. As per the reports published by the Ministry of Finance recently the overseas borrowings by the Corporates and currency fluctuations has gone up by which of the following percentage points ? **About**
- (A) 1% (B) 2%
(C) 3% (D) 4%
(E) 5%
25. The Govt. of India and the Reserve Bank of India are planning to set up an autonomous 'ATM Corporation of India' in which various banks can get together for common ATM operations. If this happens how will we all be benefited by the same ?
1. It will be a cost effective measure as each bank can share its operational cost with others.
 2. Clients can withdraw money from any ATM at any location. They are not required to go to their banks' ATM only
 3. It will indirectly help the IT business also as India has a large pool of IT skilled manpower waiting for suitable placement.
- (A) Only 1 (B) Only 2
(C) Only 1 and 2 (D) All 1, 2 and 3
(E) None of these

26. As per the news published in various newspapers the Govt. of India has decided to create a Strategic Reserve of.....
- (A) Oil and Petroleum
(B) Rasoi Gas
(C) Foodgrains
(D) Cement and Steel
(E) None of these
27. The Govt. of India had constituted a high level committee on financial sector reforms with Raghuram G. Rajan as its Chairman. Which of the following is/are the recommendations of the committee ?
1. Liberalize the interest rate that banks/institution can charge to ensure credit for the poor.
 2. Create an office of the Ombudsman exclusively for financial sector.
 3. Do not allow foreign investors in domestic stock markets.
- (A) Only 1 (B) Only 2
(C) Only 3 (D) Both 1 and 2
(E) None of these
28. Yves Leterme has taken over as the Prime Minister of.....
- (A) New Zealand (B) Belgium
(C) Croatia (D) Portugal
(E) None of these
29. The State Bank of India recently opened its 10000th branch in Puduvayal (Tamil Nadu). Only a bank in China has more branches than State Bank of India in the world. What is the name of that Chinese Bank ?
- (A) Shanghai Commercial Bank
(B) Bank of China
(C) China Banking Corporation
(D) Industrial and Commercial Bank of China
(E) None of these
30. Many a time we read about 'Globalization' and its impact on business practices in India. Which of the following is **not** one of the important parameters of 'Globalization' ?
1. Reduction of trade barriers to permit free flow of goods and services amongst various nations.
 2. Developing an environment in which free flow of capital can take place.
 3. Promoting local industry to cater to the needs of the consumers in Tier II and Tier III cities. The production from metros should be reserved only for exports.
- (A) Only 1 (B) Only 2
(C) Only 3 (D) All 1, 2 and 3
(E) Both 2 and 3
31. Many times we read a term CBS used in banking operations. What is the full form of the letter 'C' in the term 'CBS' ?
- (A) Core (B) Credit
(C) Continuous (D) Complete
(E) None of these
32. As per the news published in newspapers the Oil and Natural Gas Commission (ONGC) has purchased some oil assets in Latin American countries alongwith one other major company of India. What is the name of that Company ?
- (A) Hindustan Petroleum Corporation
(B) Indian Oil Corporation
(C) Reliance Industries Ltd.
(D) National Mineral Development Corporation of India
(E) None of these
33. India's first centre to monitor climate change was opened recently at—
- (A) New Delhi (B) Chennai
(C) Jaipur (D) Bangalore
(E) Kolkata
34. Which of the following Acts was framed specially to deal **more effectively** with the problem of Non-Performing Assets in banking system ?
- (A) SARFAESI Act
(B) Banking Regulation Act
(C) Foreign Exchange Management Act
(D) Industrial Disputes Act
(E) None of these
35. The.....shows all the Websites and pages that you have visited over a period of time.
- (A) status bar (B) task bar
(C) history list (D) tool bar
(E) None of these

36. A proxy server is used for which of the following ?
 (A) To provide security against unauthorized users
 (B) To process client requests for Web pages
 (C) To process client requests for database access
 (D) To provide TCP/IP
 (E) None of these
37. A repair for a known software bug, usually available at no charge on the internet, is called a(n).....
 (A) version (B) patch
 (C) tutorial (D) FAQ
 (E) None of these
38. In the URL <http://www.prenhall.com>, the portion labelled [http](http://) is the.....
 (A) host (B) domain name
 (C) protocol (D) top-level domain
 (E) None of these
39. Which of the following organizations has recently given a US \$ 600 million loan to Power Grid Corporation of India, a Govt. run organization ?
 (A) Asian Development Bank
 (B) World Bank
 (C) International Monetary Fund
 (D) Bank of America
 (E) None of these
40. The ability to easily add additional users means that a network is.....
 (A) scalable (B) dedicated
 (C) decentralized (D) secure
 (E) None of these
41. In a database, a field is a.....
 (A) label
 (B) table of information
 (C) group of related records
 (D) category of information
 (E) None of these
42. The number of pixels displayed on a screen is known as the screen.....
 (A) resolution (B) colour depth
 (C) refresh rate (D) viewing size
 (E) None of these
43. Word processing, spreadsheet, and photo-editing are examples of.....
 (A) application software
 (B) system software
 (C) operating system software
 (D) platform software
 (E) None of these
44. If you wish to extend the length of the network without having the signal degrade, you would use a.....
 (A) repeater (B) router
 (C) gateway (D) switch
 (E) None of these
45. A..... is **approximately** a million bytes.
 (A) gigabyte (B) kilobyte
 (C) megabyte (D) terabyte
 (E) None of these
46. The time it takes a device to locate data and instructions and make them available to the CPU is known as.....
 (A) clock speed
 (B) a processing cycle
 (C) CPU speed
 (D) access time
 (E) None of these
47. controls the way in which the computer system functions and provides a means by which users can interact with the computer.
 (A) The platform
 (B) The operating system
 (C) Application software
 (D) The motherboard
 (E) None of these
48.means that the data contained in a database is accurate and reliable.
 (A) Data redundancy (B) Data integrity
 (C) Data reliability (D) Data consistency
 (E) None of these
49. A(n)..... is a private corporate network, used exclusively by company employees.
 (A) internet (B) local area network
 (C) peer-to-peer (D) intranet
 (E) None of these
50. A characteristic of a file server is which of the following ?
 (A) Manages file operations and is shared on a network

- (B) Manages file operations and is limited to one PC
- (C) Acts as a fat client and is shared on a network
- (D) Acts as a fat client and is limited to one PC
- (E) None of these

Answers with Hints

1. (A)
2. (D) During the 11th Plan (2007-12) a 9% annual rate of growth is targeted with 10% growth rate in the final year 2011-12. For 9% annual rate of growth, 4% growth of agriculture and 9% to 11% growth in industry and services have been targeted in the plan period.
3. (D) 4. (E) 5. (A) 6. (C) 7. (B)
8. (A) 9. (D) 10. (B) 11. (C) 12. (E)
13. (D)
14. (A) Under Bharat Nirman Yojana, goal has been set to provide connectivity to all the habitations with population of more than 1000 in the plain areas and 500 or more in hilly and tribal areas in a time bound manner by 2009. It was declared in Finance Minister's budget speech on February 28, 2005.
15. (A) 16. (C)
17. (D) Under Bharat Nirman Yojana, it is targeted to create additional irrigation facility of one crore hectares during the four years of 2005-06 to 2008-09. Thus, every year 2.25 million hectares are to be added to achieve the target.
18. (D) 19. (E) 20. (E) 21. (D)
22. (C) World Press Freedom Day is observed every year on May 3 worldwide. It is an opportunity to celebrate the fundamental principles of Press freedom, to evaluate press freedom, to defend the media from attacks on their independence and to pay tribute to journalists who have lost their lives in the line of duty. The United Nations General Assembly proclaimed World Press Freedom Day in 1993, following a recommendation adopted at the twenty-sixth Session of UNESCO's General Conference in 1991.
23. (E) 24. (B) 25. (C) 26. (C) 27. (E)
28. (B) Yves Camille Desire Leterme is a Belgian politician, a leader of the Christian Democratic and Flemish Party. In March 2008, he became the Prime Minister of Belgium.
29. (D) 30. (D) 31. (A) 32. (E)
33. (B) India's first centre dedicated to monitoring climate change and finding country-specific solutions was opened at Anna University (Chennai) by R. K. Pachauri, Chairman of the Inter-governmental Panel on climate change.
34. (A) 35. (C) 36. (A) 37. (B) 38. (C)
39. (B) 40. (A) 41. (C) 42. (A) 43. (A)
44. (A)
45. (C) A Megabyte (MB) is a unit of measurement used to quantify computer memory and storage. One megabyte is the equivalent of approximately one million bytes and one thousand kilobytes (the exact conversion is 1 megabyte = 10,48,576 bytes and 1,024 kilobytes in binary measurement). Megabytes are also used to describe the size of digital files and images as well as capacity of digital storage units. A megabyte is often referred to as a 'Meg' in computer vernacular.
46. (D) 47. (B) 48. (B) 49. (B) 50. (A)

English Language

Directions—(Q. 1–15) Read the following passage carefully and answer the questions given below it. Certain words have been printed in **bold** to help you to locate them while answering some of the questions.

We have witnessed several disasters in recent times, some natural, others man-made. The **frequency** of such calamities has inured us and deadened our collective sensitivity, but that does

not reduce the enormity of the personal tragedy of each victims's family and community. The economic loss is only secondary to the human suffering, but is also substantial. The Government whether State or Central has standardised its response. This consists of reacting late, blaming others, visits by VIPs, announcing a relief package including compensation for those affected and then forgetting all about it. There seems to be little

attempt at drawing lessons from each disaster, storing the knowledge for future use, long term planning for possible **preemptive** action. Preparedness for disasters thus falls short of what is possible using today's technologies.

Floods in many parts of India like the states of Bihar and Assam are a yearly phenomenon. Yet the government seems to be caught by surprise year after year. It is obvious that tarpaulins, vaccines, medicines, clothes, satellite phones, large numbers of doctors and paramedical staff etc. will be needed as will boats and buses for evacuation. This is known to all those who have combated emergencies yet the non-availability of these essential services and commodities occurs. Worse the organisational structure and mechanisms for dealing with disasters are **lethargic** and ill defined. The National Disaster Management Agency, set up a short time ago being a central government agency has limitations relating to **infringing** the jurisdiction of states. It could have aggregated and dis-seminated experiences and knowledge, stocked many of the essential items required in an emergency or worked with agencies to ensure sufficient stocks, but hasn't.

While the reaction to major disasters is **dismal**, the response to emergencies like accidents is equally sad. Victims lie unattended since passers by are wary of getting caught in a labyrinthine of police and legal systems. The resulting delay in treatment converts injuries into deaths. Of late, a unique and free service to provide assistance in emergency cases is operational. Emergency Management and Research Institute (EMRI) is a professionally managed operation-initiated by the vision and a grant from Ramalinga Raju. The service, which is a successful example of public private partnership is likely to become operational in a few states in the near future. Given the sad failure of conventional government organisations in handling disasters, it is time we looked at the PPP model as an alternative without the government seeking in any way to abdicate its responsibility. While the state provides the funding, private organisations will provide the drive, professionalism, competent management and output linked efficiency of a good corporate organisation. Combining the sensitivity and purpose of an NGO with private entrepreneurial drive to handle disasters together is thus a worthwhile challenge for both corporates and the government.

- Which of the following is NOT true in the context of the passage ?
 - Man-made disasters occur more frequently than natural disasters
 - The Public Private Participation model has been successful in handling emergencies
 - Floods occur every year in some Indian states
 - Analysis of previous disasters will help us cope with future ones
 - People have become indifferent to disasters
- Which of the following has been the customary government reaction to disasters ?
 - It has handled disasters with utmost sensitivity
 - It responds in a professional, efficient manner which has been standardised over time
 - It ensures monetary aid reaches those afflicted by disasters
 - Only (1) (B) Only (2)
 - Both (1) and (2) (D) Only (3)
 - None of these
- Why do bystanders not help accident victims ?
 - They lack the necessary medical knowledge
 - It is the responsibility of the driver of the vehicle
 - Cumbersome police formalities
 - Medical attention via satellite phones can be provided promptly
 - None of these
- Which of the following can be inferred about the National Disaster Management Agency ?
 - It has substantial experience in dealing with disasters
 - It has been successful in sharing information with other disaster management agencies
 - It disburses funds to disaster management organisations to procure emergency stocks
 - None (B) All (1), (2) and (3)
 - Only (1) (D) Both (1) and (2)
 - None of these

5. Why is there a lack of medical care at disaster sites ?
- Inadequate transportation facilities
 - Lack of disaster management training for medical staff
 - Loss of medical supplies due to dangerous conditions
 - Safety of medical staff cannot be assured
 - None of these
6. What does the author consider "a worthwhile challenge for both corporates and the government" ?
- Governments should gradually transfer disaster management to corporates
 - Their working together to manage disasters competently keeping public interests in mind
 - Reducing the incidence of man-made disasters
 - Mitigating the financial losses sustained during natural disasters
 - None of these
7. According to the passage, which of the following will be the likely impact/s of the public private participation model of disaster management ?
- Politicians will not be able to interfere with relief efforts
 - Aid will be effectively deployed
 - Professional approach to disaster management efforts
- Only (1)
 - Both (2) and (3)
 - All (1), (2) and (3)
 - Only (3)
 - None of these
8. Which of the following has/have been the impact/s of consistently occurring natural disasters ?
- The Government has initiated a long term planning process to handle them
 - Use of technology in combating disasters has increased in India
 - The Government is not caught unawares when such disasters occur
- None
 - Only (2)
 - Both (1) and (3)
 - Both (1) and (2)
 - All (1), (2) and (3)
9. Which of the following is TRUE about EMRI ?
- It is run by a philanthropist
 - It has widespread operations all over India
 - The government has no say in its functioning
 - EMRI is a non governmental organisation
 - It is an emergency management service
10. What is the author's view on the government's current reaction to natural disasters ?
- The Government has not been able to handle disasters and should seek foreign aid
 - A Central Government agency should be set up to speed up coordination in rescue efforts
 - It has failed to utilise donations effectively to provide relief
 - The government is apathetic and has not managed to handle disasters effectively
 - None of these
- Directions—(Q. 11–13) Choose the word which is most similar in meaning to the word printed in bold as used in the passage.**
11. **Pre-emptive**
- Widespread
 - Seizing
 - Restrained
 - Preventive
 - Commanding
12. **Frequency**
- Sound
 - Habit
 - Recurrence
 - Average
 - Occasion
13. **Infringing**
- Beating
 - Violating
 - Provoking
 - Hampering
 - Disobeying
- Directions—(Q. 14 and 15) Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.**
14. **Lethargic**
- Healthy
 - Active
 - Favourable
 - Awake
 - Intense

15. **Dismal**
 (A) Depressing (B) Upset
 (C) Competent (D) Animated
 (E) Smiling

Directions—(Q. 16–20) Which of the 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.

16. Last week the Committee **summarily rejected** their proposal for acquisition of the investment bank.
 (A) have rejected in summary
 (B) summarily reject
 (C) is rejected summarily
 (D) were summarily rejected
 (E) No correction required
17. If **he is fortunately** to be successful, you should give something back to society.
 (A) Unless you are fortunate
 (B) If you are fortunate
 (C) By being fortunate
 (D) If you were fortunately
 (E) No correction required
18. It is the crippling losses suffered by US banks **have led to** the current economic slump.
 (A) which have led to (B) that have led
 (C) leading into (D) have lead to
 (E) No correction required
19. Public health facilities are **more scarce since** patients have to wait for hours to see a doctor.
 (A) too scarce for
 (B) very scarce because
 (C) so scarce that
 (D) quite scarce that
 (E) No correction required
20. What impressed me most about him was **that his commitment to** his work as well as his family.
 (A) he was committed
 (B) that he is committed
 (C) he has committed for
 (D) his commitment to
 (E) No correction required

Directions—(Q. 21–25) In each question below a sentence with four words printed in **bold**

type is given. These are lettered as (A), (B), (C) and (D). One of these four words printed in **bold** may be either **wrongly spelt or inappropriate** in the context of the sentence. Find out the word, which is wrongly spelt or inappropriate, if any. The letter of that word is your answer. If all the words printed in **bold** are correctly spelt and also appropriate in the context of the sentence, mark (E) *i.e.*, 'All Correct' as your answer.

21. The Finance Minister has **impressed** (A)
satisfaction over the **progress** made by (B) (C)
regional rural banks. All correct (D) (E)
22. We plan to complete the **exhaustive** (A)
performance review undertook by us by (B) (C) (D)
 next week. All correct (E)
23. If they want to **maintain** their current rate of (A)
expansion they have to **consider** these (B) (C)
parametres. All correct (D) (E)
24. India's **overall** trade **defecit continues** to be a (A) (B) (C)
 major source of concern for **analysts.** (D)
 All correct (E)
25. Home loan **borrowers** will be **definitely** (A) (B)
affected since banks have raised their **lending** (C) (D)
 rates of interest. All correct (E)

Directions—(Q. 26–30) Rearrange the following six sentences (1), (2), (3), (4), (5) and (6) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- (1) As a result the non stop tensions and anxieties at work often result in health related problems.

- (2) The truth is we cannot change the world of work.
- (3) We spend at least half our waking hours at work.
- (4) We have therefore to take charge and transform the way in which we respond to our work environment.
- (5) So how can we control these problems and perform at work ?
- (6) However we can change the way we feel and deal with various situations.
26. Which of the following should be the **FOURTH** sentence after rearrangement ?
 (A) 1 (B) 2
 (C) 3 (D) 4
 (E) 5
27. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement ?
 (A) 2 (B) 3
 (C) 4 (D) 5
 (E) 6
28. Which of the following should be the **FIRST** sentence after rearrangement ?
 (A) 1 (B) 2
 (C) 3 (D) 4
 (E) 5
29. Which of the following should be the **SECOND** sentence after rearrangement ?
 (A) 1 (B) 2
 (C) 3 (D) 4
 (E) 5
30. Which of the following should be the **FIFTH** sentence after rearrangement ?
 (A) 2 (B) 3
 (C) 4 (D) 5
 (E) 6
- Directions—**(Q. 31–40) Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is (E) *i.e.*, 'No error'. (Ignore the errors of punctuation, if any.)
31. Road developers unable / to finish their projects / on time will not be / awarded new ones.
 (A) (B)
 (C) (D)
 No error (E)
32. Owing the new policy / we feel that the targets / set for this year / may not be achieved.
 (A) (B)
 (C) (D)
 No error (E)
33. We have taken on / the responsibility of / arranging the required training / and supervise the new staff.
 (A) (B)
 (C) (D)
 No error (E)
34. The government has signed / a memorandum of understanding with / the company to set up / a plant in the state.
 (A) (B)
 (C) (D)
 No error (E)
35. Since the lack of / manpower we cannot / conduct the survey / in rural areas.
 (A) (B)
 (C) (D) (E)
36. These companies have been asked / to furnish their financial details / and information about / its board members.
 (A) (B)
 (C) (D)
 No error (E)
37. The scheme which will be launched / during the next two years / require an additional investment / of one hundred crores.
 (A) (B)
 (C)
 No error (D) (E)
38. The data shows that / the unemployment rate has / raised to 6.1 per cent, / the highest in five years.
 (A) (B)
 (C) (D)
 No error (E)
39. Palm oil is very beneficial / and is use to / make products ranging / from soap to bio-diesel.
 (A) (B)
 (C) (D)
 No error (E)
40. There are only / a few company / which can handle / projects of this magnitude.
 (A) (B) (C)
 No error (D) (E)

Directions—(Q. 41–50) 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 are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Recently the World Bank and the Asian Development Bank (ADB) ...(41)... separate reports on poverty. The World Bank report ...(42)... its benchmark of extreme poverty by 25 cents from \$ 1 per person per day to \$ 1.25 per person a day. The ADB announced an even ...(43)... benchmark of \$ 1.35 per person a day. These new benchmarks are ...(44)... on surveys in the world's poorest countries.

Experts often like to ...(45)... that poverty has declined because of economic growth in India and China. This is wrong and ...(46)... In the past twenty-five years the poverty rate in India has ...(47)... by less than one percentage point a year. ...(48)... we use a poverty line of \$ 1 per person per day or \$ 1.25 per person per day makes little ...(49)... The number of poor in India is large. The purpose of these statistics is not to dispute them but to ...(50)... whether the benefits of economic growth are being shared with the poor.

41. (A) Print (B) Issue
(C) Publish (D) Declared
(E) Released
42. (A) Raised (B) Maintained
(C) Notified (D) Heightened
(E) Announced
43. (A) Plausible (B) Higher
(C) Lower (D) Better
(E) Significant
44. (A) Inferred (B) Derived
(C) Gathered (D) Based
(E) Collected
45. (A) Discover (B) Recommend
(C) Criticise (D) Realise
(E) Claim
46. (A) Corrupt (B) Rejected
(C) Misleading (D) Adverse
(E) Opposing

47. (A) Declined (B) Weaken
(C) Fell (D) Deplete
(E) Plunge
48. (A) Instead (B) Whether
(C) Regardless (D) Unless
(E) Despite
49. (A) Contrast (B) Question
(C) Option (D) Difference
(E) Effect
50. (A) Care (B) Inspire
(C) Study (D) Acknowledge
(E) Suggest

Answers with Explanations

1. (A) 2. (B) 3. (C) 4. (A) 5. (A)
6. (B) 7. (D) 8. (A) 9. (E) 10. (D)
11. (D) 12. (C) 13. (B) 14. (B) 15. (D)
16. (E) 17. (B) 18. (A) 19. (C) 20. (D)
21. (A) Change 'impressed' to 'expressed'.
22. (D) Change 'undertook' to 'undertaken'.
23. (D) Change 'parametres' to 'parameters'.
24. (B) Change 'defecit' to 'deficit'.
25. (E) 26. (B) 27. (C) 28. (C) 29. (A)
30. (E)
31. (A) 'Road developers unable' should be changed to 'The road developers who are unable'.
32. (A) Insert 'to' after 'owing'.
33. (A) 'Taken on' should be substituted by 'taken up'.
34. (E)
35. (A) 'Since the lack of' should be substituted by 'owing to the lack of'.
36. (D) Change 'its' to 'their'.
37. (C) Change 'require' to 'requires'.
38. (C) Change 'raised' to 'risen'.
39. (B) Change 'use' to 'used'.
40. (B) Change 'company' to 'companies'.
41. (E) 42. (E) 43. (B) 44. (D) 45. (E)
46. (C) 47. (A) 48. (B) 49. (D) 50. (C)