

IBPS CWE Clerk Exam

Held on December, 2016

Part (A) - Reasoning

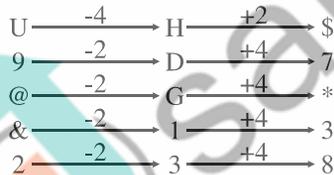
Directions (1-5) : Study the following arrangement of letters, number and symbols carefully to answer the given questions

NA3K2W8G4@Z*D%9H7\$5UΩIL&SR=Y6©E

1. As per the given arrangement, four of following five are alike in a certain way and hence form a group. Which of following does not belong the group.

- (1) UH\$ (2) 9D7
(3) @G* (4) &1R
(5) 238

Ans. (1)



Hence UH\$ does not belong to the group.

2. Which of the following will be seventh to the right of the thir teen element from the right end of the given arrangement ?

- (1) R (2) V
(3) L (4) 6
(5) &

Ans. (1) Form given series :

13th element from right = 5

7th element from 5 to right = R

3. How many letters are there between the seventh element from the left and the fourteenth element from the right end of the given arrangement ?

- (1) Four (2) Two
(3) Seven (4) Six
(5) Five

Ans. (1)

Seventh element from the left = 8

Fourteenth element from the right = \$

Letters between 8 and \$ = G, Z, D, H
= 4 letters

4. What will be the sum of all the numbers between the tenth element from the left end and the eighth element from the right end of the given arrangement?

- (1) 22 (2) 15
(3) 17 (4) 20
(5) 19

Ans. (1)

10th element from left = @

8th element from right = &

Numbers between @ and & = 9, 7, 5, 1

Required sum = 9 + 7 + 5 + 1 = 22

5. If all the letters from the given arrangement are deleted, then which of the following will represent the third element to the left of 4 and fifth element to the right of Ω respectively ?

- (1) 2, # (2) B, #
(3) 3, © (4) 3, 6
(5) 2, ©

Ans. (3)

In given series if all letters from given arrangement are deleted, then series will be



6. If in the word **FRACTION**, first all the consonants are arranged in alphabetical order from left to right and then all the vowels are arranged in alphabetical order from left to right, which of the following is the fifth letter from the right ?

- (1) F (2) N
(3) T (4) R
(5) A

Ans. (4)

FRACTION (Given word)

After arrangement



7. If all the digits of the number '6379452', are arranged in ascending order from left to right, what will be the sum of the fourth digit from the left and second digit from the right after rearrangement ?

- (1) 10 (2) 12
(3) 15 (4) 13
(5) 11

Ans. (2)

6 3 7 9 4 5 2 (Given digits of number)

After arranging in ascending order :

2 3 4 5 6 7 9

according to question required sum of digits = $5 + 7$
= 12

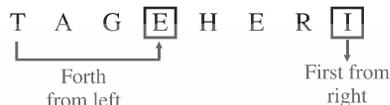
8. The position of the first and the fifth letters of the word **HERITAGE** are interchanged, similarly, the position of second and sixth letters and third and seventh letters and fourth and eighth letters are interchanged. In the new arrangement thus formed, how many letters are there between the letters which is fourth from the left and first from the right in the English alphabetical series ?

- (1) Two (2) None
(3) More than three (4) Three
(5) One

Ans. (4)

HERITAGE (Given word)

After arrangement according to question

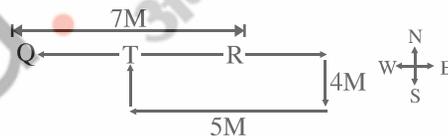


So, there are 3 letters (FGH) between E and I.

9. Point Q is 7m to the west of Point R. Anand starts walking from point R towards east. He walks for 3m and takes a right turn. He further walks for 4 m takes another-right turn. He walks for 5 m and turns to his right. He further walks for 4m - and stops at Point T. In which direction is Point T with respect to Point Q ?

- (1) South
(2) West
(3) East
(4) Cannot be determined
(5) North

Ans. (3)



Hence T is in the east direction with respect to point Q

Directions (10-14) : In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer.

Give answer :

- (1) If **only** conclusion I is true
(2) If **both** conclusion I and II are true
(3) If **either** conclusion I or II is true
(4) If **only** conclusion II is true
(5) If **neither** conclusion I nor II is true

10. **Statements :** $F < W = J \geq K; W \leq D$

Conclusions :

I. $D > K$

II. $K = D$

Ans. (3) $F < W = J \geq K$

$W \leq D$

$D \geq W = J > K$

Conclusions I. $D > K \rightarrow$ false

II. $K > D \rightarrow$ false

But both conclusions can't be false at a time. So, either I or II conclusion is true.

11. **Statements :** $V \leq E = U \leq X > A$

Conclusions :

I. $X \geq V$

II. $E > A$

Ans. (1) $V \leq E = U \leq X > A$

Conclusions I. $X \geq V \rightarrow$ true

$E > A \rightarrow$ false

Hence first conclusion is true.

12. **Statements :** $O = M \geq G; M \leq P; S > M$

Conclusions :

I. $S > G$

II. $O \leq P$

Ans. (2) $O = M \geq G, M \leq P$ and $S > M$

So, $O = M \leq P$

$S > M \geq G$

Conclusions : I. $S > G \rightarrow$ true

$O \leq P \rightarrow$ true

Hence both conclusions are true.

13. **Statements :** $X \geq W < D = U \geq R$

Conclusions :

I. $X < U$

II. $R > W$

Ans. (5) $X \geq W < D = U \geq R$

Conclusions : I. $X < U \rightarrow$ false

II. $R > W \rightarrow$ false

Hence both conclusions are false.

14. **Statements :** $H > Y = R > B; R \leq C$

Conclusions :

I. $C < H$

II. $H > B$

Ans. (4) $H > Y = R > B; R \leq C$

$H > Y = R \leq C$

Conclusions : I. $C < H \rightarrow$ false

II. $H > B \rightarrow$ true

Directions (15-19) : These questions are based on five words given below.

ROD ITS MUG RAY SEW

15. **If the third alphabet in each of the words is changed to next alphabet in the English alphabetical order, in how many words thus formed will an alphabet appear twice ?**

(1) One

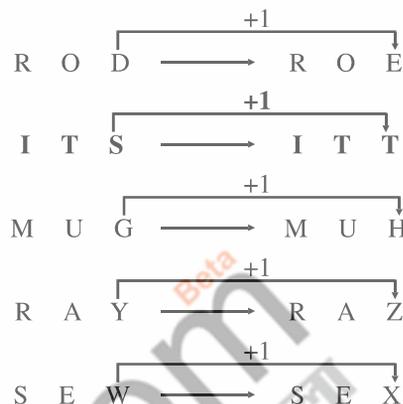
(2) Two

(3) Four

(4) Three

(5) None

Ans. (1)



16. **If the third letter in each of the words becomes the first letter, the first becomes the second and the second becomes the third letter, which of the following will form meaningful English words ?**

(1) Both MUG and RAY

(2) None of the given options will form a meaningful English word

(3) Both ROD and SEW

(4) Only RAYs

(5) Only ITS

Ans. (5)

After arranging according to question

ROD \rightarrow DRO

ITS \rightarrow SIT

MUG \rightarrow GMU

RAY \rightarrow YRA

SEW \rightarrow WSE

17. **Which of the following represent the letters immediately following, (in the English alphabetical order) the third letter of the word which is third from the right and the second letter of the word which is second from the left of the given words ? (the counting is done from left to right).**

(1) H, U

(2) F, R

(3) R, H

(4) K, N

(5) Y, T

Ans. (1)

Third word from the right = MUG

Third letter in MUG = G

G + 1 = H

Second word from the left = ITS

Second word in ITS = T

T + 1 = U

18. If the given words are arranged in the order as they would appear in the dictionary from left to right, the position of which of the following will not change when compared to the given positions ?

- (1) Both ITS and RAY
- (2) The positions of all given words would change
- (3) Only MUG
- (4) Only SEW
- (5) Only RUD

Ans. (4) Given words :

ROD ITS MUG RAY SEW

According to alphabetical order :

ITS MUG RAY ROD SEW

Hence only 'SEW' word will not change when compared to the given positions.

19. If in each of the given words, each of the consonant is changed to the previous letter and each vowel is changed to next letter in the English alphabetical series, how many words thus formed will have at least one vowel ?

- (1) More than three
- (2) None
- (3) Three
- (4) Two
- (5) One

Ans. (2) ROD → QPC

ITS → JSR

MUG → LVF

RAY → QBX

SEW → RFV

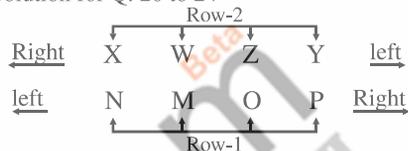
Hence there is no word having at least one vowel.

Directions (20-24) : Study the given information carefully and answer the given questions.

Eight people are sitting in two parallel rows, containing four people each in such a way that there is an equal distance between adjacent persons. In row-1, M, N, O and P are seated and all of them are facing north and in row-2, W, X, Y and Z are seated and all facing south (but not necessarily in the

same order.) Thus in the given arrangement each person seated in a row faces another person of the other row. O sits second to the right of one who sits at an extreme end of the line. O faces an immediate neighbour of W, X. Sits to the immediate right of W. The one who faces X sits at one of the positions to the left of P, P does not face W, M sits to the immediate left of the one who faces Z.

Solution for Q. 20 to 24



20. Which of the following represents the immediate neighbours of the one who faces Z ?

- (1) Only O
- (2) Both N and M
- (3) Only N
- (4) Only M
- (5) Both M and P

Ans. (5)

21. Which of the following represents the people sitting to the immediate right of O and immediate right Z respectively ?

- (1) P, W
- (2) N, W
- (3) N, Y
- (4) P, X
- (5) M, W

Ans. (1)

22. Who sits to the immediate right of the one who faces an immediate neighbour of W ?

- (1) Only P
- (2) Both P and N
- (3) Only M
- (4) Only O
- (5) Both M and P

Ans. (3)

23. Which of the following represents the correct position of N ?

- (1) Immediate left of the one who faces Y
- (2) Second to the right of O
- (3) Immediate left of P
- (4) Second to the left of the one who faces Z
- (5) None of the given options

Ans. (4)

24. Who amongst the following faces

- (1) Either Z or W

- (2) X (3) Z
 (4) Y (5) W

Ans. (4)

Directions (25-29) : Study the given information carefully and answer the questions given below.

Eight people : P, Q, R, S, W, X, Y and Z are sitting in a straight line facing north with equal distance between each other, but not necessarily in the same order.

- Q sits at one of the extreme ends of the line. Only one person sits between Q and S. More than three people sit between Z and Y.
- R sits third to the left of S. S is neither an immediate neighbour of Q nor Y.
- Number of people sitting to the left of R is equal to the number of people sitting to the right of X.
- P is not an immediate neighbour of S.

Solution for Q. 25 to 29



25. How many persons are seated to the left of R ?

- (1) Three (2) Two
 (3) Four (4) One
 (5) None

Ans. (4)

26. Which of the following is true with respect to W as per the given arrangement ?

- (1) W sits third to the left of Y
 (2) Z is one of the immediate neighbours of W
 (3) Only two people sit between W and S
 (4) Only one person sits to the right of W
 (5) None of the given options is true

Ans. (5)

27. If X and P interchange their positions and so do S and Q, who will sit third to the left of Z according to the new arrangement ?

- (1) S (2) P
 (3) W (4) X
 (5) Q

Ans. (3)

28. Who amongst the following sits third to

the right of P ?

- (1) No one as P sits at extreme right end of the line
 (2) Q (3) W
 (4) X (5) Z

Ans. (5)

29. Who amongst the following represent the immediate neighbours of the persons sitting at extreme ends of the line ?

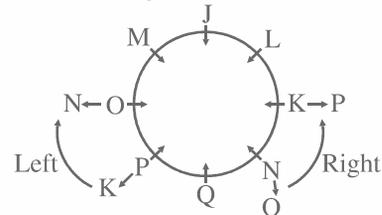
- (1) R, Y (2) S, W
 (3) W, Y (4) R, X
 (5) P, W

Ans. (4)

Directions (30-34) : Study the following information carefully and answer the given questions.

Eight people-J, K, L, M, N, O, P and Q are sitting around a circular table with equal distance between each other but not necessarily in the same order. Q sits to the immediate left of N. Only four persons sit between Q and L. P sits second to the right of M. M is not immediate neighbour of L. Only three people sit between Q and J.

Solution for Q. 30 to 34



30. Which of the following statements is not true as per the given arrangement ?

- (1) P sits third to the left of K
 (2) All the given statements are true
 (3) Both M and L are immediate neighbours of J
 (4) Only three people sit between N and P
 (5) K sits to the immediate left of L

Ans. (4)

31. As per the given arrangement, J : L in the same way as K : N. Following the same pattern, Q : ?

- (1) J (2) M
 (3) K (4) P
 (5) O

Ans. (4)

32. What is Q's position with respect to J ?

- (1) Second to the left
- (2) Fourth to the left
- (3) Second to the right
- (4) Immediate right
- (5) Third to the right

Ans. (2)

33. Who sits exactly between the one who is to the immediate right of P and K when counted from the left of K ?

- (1) N
- (2) O
- (3) J
- (4) K
- (5) Q

Ans. (1)

34. In the given arrangement, if O interchanges its position with N and P interchanges its position with K, then how many persons will sit between P and N, when counted from the right of P ?

- (1) Two
- (2) One
- (3) More than three
- (4) Three
- (5) None

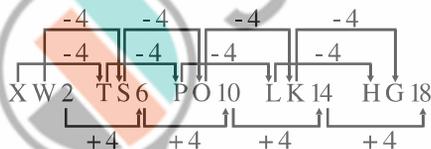
Ans. (4)

35. The following series is based on the English alphabets and numbers, which of the following will come in place of the question mark (?) in the given series ?

XW2 TS6 PO10 LK14 HG18 ?

- (1) HG18
- (2) JI 18
- (3) HG16
- (4) IH 16
- (5) JG12

Ans. (1)



Hence next alphabet and number will be HG18 in this series.

Part (B) : Quantitative Aptitude

36. The respective ratio between two positive numbers (X and Y) is 3 : 5. When 2 is added to both the numbers the ratio between X and Y becomes 5 : 8. What is the difference between both numbers ?

- (1) 2
- (2) 12

(3) 9

(4) 6

(5) 3

Ans. (2) The respective ratio between two numbers = 3 : 5

Let these positive numbers are 3x and 5x respectively

So, according to question

$$\frac{3x + 2}{5x + 2} = \frac{5}{8}$$

$$8(3x + 2) = 5(5x + 2)$$

$$24x + 16 = 25x + 10$$

$$x = 6$$

So these positive numbers are 18 and 30.

Difference between these numbers = 30 - 18 = 12

Directions (36-51) : What will come in place of question mark ?

37. $\sqrt{676} \div ? \times 57 = 114$

(1) 13

(2) 8

(3) 2

(4) 11

(5) 9

Ans. (1)

$$\sqrt{676} \div ? \times 57 = 114$$

$$\text{or } 26 \div ? \times 57 = 114$$

$$\text{or } \frac{26}{?} \times 57 = 114$$

$$\text{or } \frac{26}{?} = 2$$

$$\text{or } ? = \frac{26}{2} = 13$$

38. ? % of 750 = 75% of 600

(1) 60

(2) 75

(3) 80

(4) 20

(5) 40

Ans. (1)

? % of 750 = 75% of 600

$$750 \times \frac{?}{100} = \frac{75 \times 600}{100}$$

$$\text{or } 750 \times ? = 75 \times 600$$

$$\text{or } ? = \frac{75 \times 600}{750}$$

$$= 60$$

39. $3720 \div 20 = 508 + ?$

(1) 454 (2) -422

(3) -322 (4) 444

(5) 452

Ans. (3)

$$3720 \div 20 = 508 + ?$$

$$\frac{3720}{20} = 508 + ?$$

$$186 = 508 + ?$$

or $? = 186 - 508$

$$= -322$$

40. $60\% \text{ of } (? + 173.5 + 157.5) = 21 \times 12$

(1) 83 (2) 109

(3) 89 (4) 79

(5) 99

Ans. (3)

$$60\% \text{ of } (? + 173.5 + 157.5) = 21 \times 12$$

or $(331 + ?) \times \frac{60}{100} = 21 \times 12$

$$(331 + ?) = \frac{252 \times 100}{60}$$

$$(331 + ?) = 420$$

$$? = 420 - 331$$

$$= 89$$

41. $(154 \times 2.5 + 0.5) \div ? = 192.5$

(1) 6 (2) 8

(3) 2 (4) 4

(5) 18

Ans. (4)

$$(154 \times 2.5 + 0.5) \div ? = 192.5$$

or $(154 \times 5) \div ? = 192.5$

or $\frac{154 \times 5}{?} = 192.5$

or $? = \frac{154 \times 5}{192.5}$

$$= 4$$

42. $\sqrt{? + 483} \div 6 = 125^{\frac{1}{3}}$

(1) 429 (2) 411

(3) 423 (4) 413

(5) 417

Ans. (5)

$$\sqrt{? + 483} \div 6 = 125^{\frac{1}{3}}$$

or $\frac{\sqrt{? + 483}}{6} = 5$

or $\sqrt{? + 483} = 30$

or $? + 483 = 900$

or $? = 900 - 483$

$$= 417$$

43. $60\% \text{ of } 725 = 174 \times ?$

(1) 0.2 (2) 1.9

(3) 0.4 (4) 2.8

(5) 2.5

Ans. (5) $60\% \text{ of } 725 = 174 \times ?$

$$725 \times \frac{60}{100} = 174 \times ?$$

or $435 = 174 \times ?$

or $? = \frac{435}{174}$

$$= 2.5$$

44. $15\frac{1}{2} + 7\frac{3}{4} = ? \div 16$

(1) 372 (2) 370

(3) 354 (4) 365

(5) 347

Ans. (1)

$$15\frac{1}{2} + 7\frac{3}{4} = ? \div 16$$

$$15 + 7 + \left(\frac{1}{2} + \frac{3}{4}\right) = ? \div 16$$

$$22 + \frac{5}{4} = \frac{?}{16}$$

$$\frac{88 + 5}{4} = \frac{?}{16}$$

or $\frac{93}{4} = \frac{?}{16}$

or $? = \frac{93 \times 16}{4}$

$$= 372$$

45. $\frac{3.2 \times 0.5}{4} = ? \div 6$

(1) 2 (2) 2.4

(3) 0.8 (4) 1.6

(5) 4.8

Ans. (2)

$$\frac{3.2 \times 0.5}{4} = \frac{?}{6}$$

$$\begin{aligned} \text{or } ? &= \frac{6(3.2 \times 0.5)}{4} \\ &= \frac{6 \times 3.2 \times 0.5}{4} \\ &= 2.4 \end{aligned}$$

46. $? - (0.6)^2 = (0.7)^2 + 0.35$

(1) 1.54 (2) 1.32

(3) 1.92 (4) 1.62

(5) 1.76

Ans. (5)

$$? - (0.6)^2 = (0.7)^2 + 0.35$$

$$? - 0.36 = 0.49 + 0.35$$

$$\text{or } ? - 0.36 = \frac{0.49}{0.35}$$

$$\text{or } ? - 0.36 = \frac{7}{5}$$

$$\text{or } ? = \frac{7}{5} + 0.36$$

$$= \frac{7 + 1.8}{5}$$

$$= \frac{8.8}{5}$$

$$= 1.76$$

47. 68% of 320 + 30 ÷ 0.8 = ?

(1) 254.4 (2) 258.2

(3) 260.2 (4) 252.7

(5) 255.1

Ans. (5)

$$68\% \text{ of } 320 + 30 \div 0.8 = ?$$

$$320 \times \frac{68}{100} + \frac{30}{0.8} = ?$$

$$217.6 + 37.5 = ?$$

$$\Rightarrow ? = 255.1$$

48. $\sqrt{?} \div 8 \times 31 = 127.5 - 3.5$

(1) 1158 (2) 784

(3) 578 (4) 1024

(5) 484

Ans. (4) $\sqrt{?} \div 8 \times 31 = 127.5 - 3.5$

$$\frac{\sqrt{?}}{8} \times 31 = 124$$

$$\sqrt{?} = \frac{124 \times 8}{31}$$

$$\sqrt{?} = 32$$

$$? = (32)^2$$

$$= 1024$$

49. $\sqrt{\frac{2}{5} \times 950} - ? = 19$

(1) 17 (2) 21

(3) 23 (4) 19

(5) 11

Ans. (4)

$$\sqrt{\frac{2}{5} \times 950} - ? = 19$$

$$\text{or } \frac{2}{5} \times 950 - ? = 361$$

$$\text{or } 2 \times 190 - ? = 361$$

$$380 - ? = 361$$

$$? = 380 - 361$$

$$= 19$$

50. $(396 \div 16.5 + ?^3) + 20 = 7\frac{9}{20}$

(1) 4 (2) 5

(3) 8 (4) 2

(5) 3

Ans. (2)

$$(396 \div 16.5 + ?^3) + 20 = 7\frac{9}{20}$$

$$\frac{(396 + ?^3)}{16.5} = \frac{149}{20}$$

$$\text{or } \frac{124 + ?^3}{20} = \frac{149}{20}$$

$$24 + ?^3 = 149$$

$$?^3 = 149 - 24$$

$$?^3 = 125$$

$$?^3 = (5)^3$$

$$? = 5$$

51. $?^2 \times 8 - 250 = 398$

(1) 6 (2) 14

(3) 12 (4) 3

(5) 9

Ans. (5) $?^2 \times 8 - 250 = 398$

$?^2 \times 8 = 398 + 250$

$?^2 = \frac{648}{8}$

$?^2 = 81$

$?^2 = (9)^2$

$? = 9$

52. Jim invested Rs. 1,700/- and Rs. 2,300/- in schemes A and B respectively for 3 years. If schemes A and B offer simple interest at the rate of 6 p.c.p.a. and at the rate of 9 p.c.p.a. respectively, what is the total interest earned by Jim from both the schemes together after 3 years ?

(1) 927/- (2) 933/-

(3) 949/- (4) 935/-

(5) 945/-

Ans. (1)

$P_1 = 1700 \text{ Rs. } P_2 = 2300 \text{ Rs.}$

$T_1 = 3 \text{ years } T_2 = 3 \text{ years}$

$R_1 = 6\% \quad R_2 = 9\%$

$\therefore \text{S.I.} = \frac{P \times R \times T}{100}$

Total S.I. = $\frac{1700 \times 6 \times 3}{100} + \frac{2300 \times 9 \times 3}{100}$

= 306 + 621

= 927 Rs.

Directions (53-57) : What will come in place of question mark (?) in the given number series ?

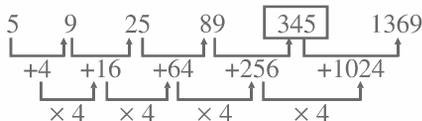
53. 5 9 25 89 ? 1369

(1) 343 (2) 355

(3) 349 (4) 341

(5) 345

Ans. (5)



Hence the digit will be 354 in given series.

54. 6 17 50 149 ? 1337

(1) 454

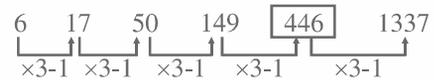
(2) 446

(3) 442

(4) 452

(5) 432

Ans. (2)



Hence the digit will be 446 in given series.

55. 61 62 54 81 17 ?

(1) 142

(2) 145

(3) 138

(4) 144

(5) 140

Ans. (1)



Hence the digit will be 142 in given series.

56. 6 11 18 29 46 ?

(1) 60

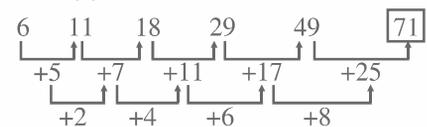
(2) 75

(3) 69

(4) 71

(5) 79

Ans. (4)



Hence next digit will be 71 in this series.

57. 26 13 13 19.5 ? 97.5

(1) 39

(2) 45

(3) 48

(4) 41

(5) 35

Ans. (1)



Hence the next digit will be 39 in this series.

58. In 2003, the total population of a village was 4800, out of which 40% were females. In 2004, the total population increased by 10% as compared to the previous year. If the number of females remained the same in 2004, what was the percentage increase in the number of

males in 2004 as compared to 2003 ?

(1) $18\frac{1}{5}\%$

(2) 20% (3) 15%

(4) 10% (5) $12\frac{1}{3}\%$

Ans. (4) Given :

Population of the village in 2003
= 4800

Number of females in 2003 = 40%

Number of females in 2003 = $\frac{4800 \times 40}{100}$
= 1920

Number of males in 2003 = 4800 - 1920
= 2880

After 10% increased, total population in 2004

= $4800 \times \frac{110}{100}$
= 5280

Number of females in 2004 = 1920
(Remains same 2003)

Number of males = 5280 - 1920
= 3360

% Increase of male = $\frac{3360 - 2880}{4800} \times 100$
= 10 %

59. A boat can travel 14.4 km downstream in 32 min if the speed of the current is 3 km/h, how much time the boat will take to travel 84 km upstream ?

- (1) 12 hours (2) 8 hours
(3) 4 hours (4) 3 hours 30 min
(5) 7 hours

Ans. (3)

Speed of current = 3 km/h

Let the speed of boat in still water = x km/h

According to question

$x + 3 = \frac{14.4}{32} \times 60$

or $x + 3 = 27$

or $x = 24$ km/h

So required time = $\frac{84}{24-3}$
= $\frac{84}{21}$
= 4 hours.

60. A and B both start a business. Amount invested by B is $\frac{1}{3}$ rd of that invested by A. Three months from the start of the business. A withdrew $\frac{1}{3}$ rd of his investment and B tripled his investments. If from the total annual profit earned, A receives Rs. 1,800/- as his share from the profit, what was the total annual profit earned ?

- (1) Rs. 2,850/- (2) Rs. 4,750/-
(3) Rs. 3,800/- (4) Rs. 3,600/-
(5) Rs. 5,400/-

Ans. (3)

Let the amount invested by A = x Rs.

Amount invested by B = $\frac{x}{3}$ Rs.

So A : B

$(3 \times x + 9x \times \frac{2}{3}) : (3 \times \frac{x}{3} + 9 \times x)$

$(3x + 6x) : (x + 9x)$

$9x : 10x$

or 9 : 10

Total profit earned by A = 1800

Total profit earned = $1800 \times \frac{19}{9}$

= 3800 Rs.

61. A tank (of capacity 160 litre) has one inlet, A and one outlet, B. Inlet A, alone can fill the empty tank in 6 hours and outlet B alone can empty the full tank in 24 hours. In how many hours will inlet A fill 16 litre water in the tank when outlet B is also open ?

- (1) 1
(2) $\frac{4}{5}$ (3) $1\frac{1}{5}$
(4) $1\frac{1}{2}$ (5) $\frac{1}{5}$

Ans. (2)

A can fill the tank in = 6 hours

in 1 hour A will fill = $\frac{1}{6}$ part

B can empty the tank in = 24 hours

in 1 hour B will empty = $\frac{1}{24}$ part

The tank to be filled by both pipe

$$= \frac{1}{6} - \frac{1}{24}$$

$$= \frac{4 - 1}{24}$$

$$= \frac{3}{24}$$

$$= 8 \text{ hours}$$

16 liter water will be filled in = $\frac{8 \times 16}{160}$

$$= \frac{4}{5} \text{ hours}$$

62. The respective ratio between length and breadth of a rectangle is 8 : 5 and its perimeter is 208 cm. If the side of the square is 40% less than the breadth of the rectangle, what is the perimeter of the square ? (in cm)

(1) 54 (2) 68

(3) 88 (4) 96

(5) 92

Ans. (4)

Given length : breadth = 8 : 5

Let the length and breadth = 8x and 5x

$$\text{Perimeter} = 208 \text{ cm}$$

$$2(8x + 5x) = 208 \text{ cm}$$

$$13x = 104 \text{ cm}$$

$$x = 8 \text{ cm}$$

So length = 64 cm and breadth = 40 cm

According to question :

$$\text{length of the side of square} = 40 \times \frac{60}{100}$$

$$= 24 \text{ cm}$$

so, perimeter of square = 24×4

$$= 96 \text{ cm}$$

63. The respective ratio of cost price of articles A and B is 7 : 9. Article A was sold at a profit of 40% and article B was sold at a profit of 10%. If the total profit earned after selling both the articles (A and B) is Rs. 148/-, what is the difference between cost price of articles A and B ?

(1) Rs. 120/- (2) Rs. 60/-

(3) Rs. 200/- (4) Rs. 80/-

(5) Rs. 40/-

Ans. (4)

Let cost price of A and B is 7x and 9x Rs. respectively.

A is sold at 40% profit So, S.P. of A

$$= 7x \times \frac{140}{100}$$

$$= 9.8x \text{ Rs.}$$

B is sold at 10% profit, so S.P. of B

$$= 9x \times \frac{110}{100}$$

$$= 9.9x$$

Total profit on both article

$$= (9.8x + 9.9x) - (7x + 9x)$$

$$= 3.7x$$

Difference between cost price

$$= \frac{148 \times 2x}{3.7x}$$

$$= 80 \text{ Rs.}$$

64. Two years hence, the respective ratio between A's age at that time and B's age at that time will be 6 : 5. A's age thirteen years ago was half of B's present age. What is A's present age? (in years)

(1) 16 (2) 40

(3) 28 (4) 22

(5) 34

Ans. (4)

Let present age of both A's age and B's age

$$= (6x-2) \text{ and } (5x-2)$$

13 years ago A's age = $6x - 15$

Half age of B's present age = $\frac{5x - 2}{2}$

According to question

$$6x - 15 = \frac{5x - 2}{2}$$

$$12x - 30 = 5x - 2$$

$$7x = 28$$

$$x = 4$$

so present age of A = $6x - 2$

$$= 6 \times 4 - 2$$

$$= 22 \text{ years.}$$

65. Ranu's monthly salary, is $\frac{4}{5}$ th of Ali's monthly salary. Ranu and Ali save $\frac{1}{4}$ th and $\frac{2}{5}$ th amount from their respective monthly salary. If the difference between the amount saved by Ranu and that saved by Ali is Rs. 7,000/- what is Ranu's monthly salary ?

(1) Rs. 30,000/- (2) Rs. 35,600/-

(3) Rs. 35,000/- (4) Rs. 28,000/-

(5) Rs. 21,000/-

Ans. (4)

Let Ali's Salary = $5x$ Rs.

Ranu's Salary = $5x \times \frac{4}{5}$

= $4x$ Rs.

Ranu Saves = $4x \times \frac{1}{4}$

= x Rs.

Ali Saves = $5x \times \frac{2}{5}$

= $2x$ Rs.

Difference between Ali's Saving and Ranu's

Saving = $2x - x$

= x Rs.

Given Saving = 7000 Rs.

so $x = 7000$ Rs.

Ranu's monthly Salary = $4x$

= 4×7000

= 28000 Rs.

Directions (31-35) : Study the table and

answer the given questions.

Number of muffins sold by five different bakeries in five different months

Month/ Bakery	March	April	May	June	July
P	150	109	112	129	138
Q	78	87	58	105	125
R	157	209	211	213	220
S	169	149	122	153	151
T	175	159	149	180	197

66. What is the average number of muffins sold by bakery T in March, April and July ? What is the average number of muffins sold by bakery T in March, April and July ?

(1) 179 (2) 177

(3) 176 (4) 172

(5) 174

Ans. (2)

Average number of muffins sold by bakery T in march, April and july

$$= \frac{175 + 159 + 197}{3}$$

$$= \frac{531}{3}$$

$$= 177$$

67. What is the respective ratio between the total number of muffins sold by bakeries Q and S together in May and the total number of muffins sold by bakeries P and T together in the same month ?

(1) 21 : 23 (2) 20 : 29

(3) 19 : 23 (4) 20 : 23

(5) 22 : 29

Ans. (2) Total number of muffins sold by bakery Q and S in month of may

$$= 58 + 122$$

$$= 180$$

Total number of muffins sold by bakery P and T in month of may

$$= 112 + 149$$

$$= 261$$

Required ratio = 180 : 261

= 20 : 29

68. If the number of muffins sold by bakery T in August was 70% more than that sold by the same bakery in June, what was the number of muffins sold by the bakery T in August ?

- (1) 255 (2) 221
(3) 323 (4) 238
(5) 306

Ans. (5) Number of muffins sold by bakery

T in August = $180 \times \frac{170}{100}$

= 306

69. The total number of muffins sold by bakeries Q and S together in June is what percent more than the number of muffins sold by bakery P in March ?

- (1) 70% (2) 74%
(3) 72% (4) 73%
(5) 75%

Ans. (3)

Required % = $\frac{(105 + 153) - (150)}{150} \times 100$

= $\frac{258 - 150}{150} \times 100$

= $\frac{108}{150} \times 100$

= 72%

70. What is difference between the total number of muffins sold by bakeries P and Q together in April and the total number of muffins sold by bakeries P and S together in July ?

- (1) 175 (2) 152
(3) 165 (4) 143
(5) 155

Ans. (1)

Required difference

= $(220 + 151) - (109 + 87)$

= $371 - 196$

= 175

Part (C) : English Language

Directions (71-80) : 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, select the part with the error as your answer. If there is no error, select 'No error' as your answer. Ignore the errors of punctuation, if any.

71. This company has been(1)/ Served a legal notice for(2)/ using banned substances in(3)/ the manufacture of its product.(4)/ No error(5).

Ans. (4) [Replace manufacture by manufacturing]

72. All coastal villages have(1)/ been evacuated to prevent(2)/ any losses of life due(3)/ to the incoming cyclone.(4)/ No error(5).

Ans. (3) [Replace losses by lose.]

73. The reporter was arrested and(1)/ his camera seized by the police,(2)/ after he entered the prohibited(3)/ zone and started taken photos.(4)/ No error(5).

Ans. (4) [Replace taken by taking.]

74. After been caught drinking(1)/ in their hostel room, the(2)/ students were suspended from(3)/ the college for a week.(4)/ No error(5).

Ans. (1) [Replace after been by after having been.]

75. Once the party ended, we(1)/ realised that it was(2)/ midnight and that there was(3)/ no way we could return home.(4)/ No error(5).

Ans. (3)

76. There has been a(1)/ shortage in the supply of(2)/ water in the city(3)/ due for a lack of rainfall.(4) No error(5).

Ans. (4) [Replace due for a by due to.]

77. This move has resulted(1)/ in bringing commodity(2)/ prices down and uplift(3)/ the country's economy.(4)/ No error (5)

Ans. (3)

78. Raj could not take the (1)/ call as he have put his cell(2)/ phone on 'silent' mode and thus(3)/ could not hear its ring. (4)/ No error (5)

Ans. (2) [Replace have by has.]

79. He has a passion(1)/ for climbing mountains and-(2)/ is contemplates to scale(3)/ Everest next year. (4)/ No error (5)

Ans. (3)

80. In their statement, the(1)/ officials have blamed(2)/ their supervisors for(3)/ having mismanaged the situation. (4)/ No error (5)

Ans. (5)

Directions (81-90) : Read the following story carefully and answer the questions given below it. Certain words/phrases have been given in bold to help you locate them while answering some of the questions.

Duanji was a magistrate who lived a hundred years ago. He was famed for the fairness of his judgements. One day, while the magistrate was walking through the market, he saw a crowd outside a poultry shop. On enquiring what the matter was, he learnt that a peasant had accidentally dropped a heavy sack on a chicken, crushing it to death. The chicken was small, worth only about five coins, but the owner of the shop had caught the peasant by his throat and was demanding a hundred. His argument was that the chicken would have grown into a plump bird in another two years and then it would have fetched him the amount he was asking for. Somebody recognised the magistrate and everybody **made way for him**. Judge our case, My Lord', said the owner of the chicken, letting go of the peasant and bowing obsequiously to the magistrate. 'This man, through his carelessness has caused the death of a chicken that would have fetched me a hundred coins in another two years!' Fear had made the peasant's speech **incoherent**. Nobody could understand what he was saying. 'The price put on the chicken is hundred coins', said the magistrate to the peasant. 'I advise you to pay'. There was a gasp from the crowd. Everybody had expected the magistrate to rule in the peasant's favour as he was penniless. The owner of the chicken was **overjoyed**. They said you were fair in your judgements. My Lord,' he said, rubbing his hands in glee, 'now I can say there is no one fairer than

you'. 'The law is always **fair**', smiled the magistrate. Tell me, how much grain does a chicken eat in a year? 'About half a sack', said the poultry shop owner. 'So in two years the chicken who died would have eaten a whole sack of grain', said Duanji. 'Please give the sack of grain you have saved to this man'. The poultry shop owner **turned pale**. A sack of grain would cost more than hundred coins. Cowed by the jeers of the crowd, he declared he would not take any money from the peasant, and retreated into the safety of his shop.

81. Which of the following is most nearly the same in meaning as the word '**OVERJOYED**' as used in the story ?

- (1) Depressed
(2) Charmed
(3) Overburdened
(4) Dreamy
(5) Thrilled

Ans. (5)

82. Which of the following is most nearly the opposite in meaning to the word '**INCOHERENT**' as used in the story ?

- (1) Illegible
(2) Identified
(3) Clear
(4) Confused
(5) Loud

Ans. (3)

83. As mentioned in the story, everyone was disappointed when Duanji informed the peasant that he had to pay a price to the poultry shop owner, because A., they know the peasant could not afford to pay the fine. B. they were expecting him to protect the peasant. C. they knew it was not fair decision.

- (1) Only A
(2) Both A and B
(3) Only B
(4) Only C
(5) All the three A, B and C

Ans. (4)

84. Which of the following is/are not true in the context of the story ?

A. The poultry shop owner and the peasant became friends eventually.
B. Duanji subsequently fulfilled the expectations of the crowd by taking the right decision.

C. The peasant decided to give half the money to the poultry shop owner.

- (1) Only A
(2) Only B

- (3) Only C (4) Both A and C
(5) All the given options are not true

Ans. (3)

85. Which of the following correctly explains the meaning of the phrase 'made way for him' as used in the story ?

- (1) Did not allow him to move ahead
(2) Gave him his best place to sit
(3) Succeeded
(4) Moved carefully
(5) Moved aside

Ans. (5)

86. Which of the following is most nearly the same in meaning as the phrase 'TURNED PALE' as used in the story ?

- (1) Was shaken (2) Confident
(3) Annoyed (4) Haunted
(5) Feeling rosy

Ans. (1)

87. Which of the following can be said about the poultry shop owner ?

- (1) He was forgiving
(2) He was annoying
(3) He was charming
(4) He was devious
(5) He was patient

Ans. (4)

88. As mentioned in the story, the poultry shop owner decided not to take money from the peasant because :

- (1) he was afraid of the crowd
(2) he realised he would be a loss
(3) he respected the magistrate's decision
(4) he decided to forgive the peasant
(5) he decided to take it later on from his relative

Ans. (2)

89. Which of the following is most nearly the opposite in meaning as the word 'FAIR' as used in the story ?

- (1) Function (2) Indecisive
(3) Unacceptable (4) Expected
(5) Biased

Ans. (5)

90. Which of the following can be a suitable title for the story ?

- (1) The Peasant Who Lost His Chicken
(2) The Faithful Chicken
(3) The Poor Poultry Shop Owner
(4) The Final Verdict
(5) The Rich Magistrate

Ans. (4)

Directions (91-100) : In the given passage, there are blanks, each of which has been numbered. Against each, five words/group of words are suggested, one of which fits the blank appropriately. Find out the appropriate word/group of words in each case.

The old man was sitting under a tree. 'Sit' his voice rang out. Close your eyes and, listen the story will serve you well.

There was a handsome prince whose best friend was a washerman's son. The king's father believed that everyone was equal whether born in palace or a hut (91) his son school with the other children-if the school was good enough for them, it was good enough for his son. Now the prince grew up to be good and kind and (92) a girl from the king..... had reservation. Ruling the kingdom required a great strength of character. Was the god (93) this responsibility ? But he served his son and agreed to the marriage. The marriage ceremony was a grand affair and the reception (94) In all the merriment and joy there was no unhappiness. Time went on and the prince and his bride were happy. Then one night, the royal party (95) to the palace when it was attacked by thieves. There was a fierce battle in which the prince (96) The prince was beheaded and the leader of the gang too. The princess prayed fervently for help and Goddess of protection defeated the wicked thieves. She was (97) the princess' tears that she granted her a boon. The princess immediately asked for the life of her husband. There was a (98) thunder and the prince was restored to life. But then the Goddess realised that in bringing him back to life she had attached his head as that of the thief. It could not be (99) When they returned to the palace, the king, his ministers and all who encoun-

tered them (100) The princess said them. 'It is the head which controls the body which determines character. The is your prince. Mind over matter !

91. (1) So he sent (2) He refused
(3) Instead (4) Then he put
(5) Therefore

Ans. (1)

92. (1) married
(2) decided to marry
(3) choose his bride
(4) prefer to marry
(5) fixed

Ans. (2)

93. (1) capable (2) handle
(3) worthy of (4) accomplish
(5) deal with

Ans. (3)

94. (1) held (2) not held
(3) well (4) even grander
(5) still impressive

Ans. (4)

95. (1) arriving at (2) was returning

- (3) leaving (4) visited
(5) lack

Ans. (2)

96. (1) fall down (2) injured
(3) was slain (4) killed
(5) murdered

Ans. (3)

97. (1) so moved by (2) heard by
(3) torubled (4) so unhappy
(5) crying

Ans. (1)

98. (1) sounded (2) noisy
(3) sudden (4) loud clap of
(5) lightning

Ans. (4)

99. (1) ruined (2) reverse
(3) incomplete (4) change
(5) undone

Ans. (5)

100. (1) upset (2) taken shock
(3) were thrilled (4) were shocked
(5) alarmed

Ans. (4)



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