

## **Sub Unit 1**

1. Complete the series C2E, E5H, G12K, I27N, ?

- (a) I58P
- (b) J58Q
- (c) K58Q**
- (d) I57Q

2. If 18514 stand for AHEAD, then what does 31385 stands for?

- (a) CATCH
- (b) CASSET
- (c) CONQUER
- (d) CACHE**

3. If MADRAS can be written as SARDAM, how can RKONAM be written in code

- (a) ROKANM
- (b) OKRMAN**
- (c) MANORK
- (d) KORMAN

4. In certain code language CRY is written as MRYC. Then how is GET written in that language

- (a) MTEG
- (b) MGET
- (c) MEGT
- (d) METG**

5. If EARN is written as GDVS, how NEAR can be written in that code language?

- (a) CTGP
- (b) PHEW**
- (c) GPTC
- (d) PCGT

6. If in certain code BASIC is written as CBASI, how can the word BROAD be written in that code?

- (a) DOARB
- (b) RDAOB
- (c) DBROA**
- (d) AOBDR

7. If A=2, M=26, Z=52, then BET is equal to

- (a) 44
- (b) 54**
- (c) 64
- (d) 72

8. If KOLKATA is written as LQOPFZH, then the word KASHMIR can be written as

- (a) MCVLROY**
- (b) MVCLROY
- (c) MCVRLOY
- (d) MCVSLOY

9. In certain code NAPKIN is written as QBOOJM, then how BENGAL can be written

- (a) OFCMBH**
- (b) OFCBMH
- (c) OCFBMH
- (d) OFCHMB

10. In certain code AUSTRALIA is written as TSUAAAILA, how the word ANTARTICA can be written

- (a) ATNARACIT**
- (b) ANTARACIT
- (c) ATNARCAIT
- (d) ANTRACATI

11. A man walks 10m in north direction and then turn right side and walks for 10 m. After that he takes right turn walk for another 20m and also takes right turn and walks 21 m. How far the man is from his starting position?

- (a) 12m
- (b) 13m
- (c) 11m**
- (d) 15m

12. Point B is 3m north of point A. Point C is 3m west of point B. Point D is 5m south of point C. Point E is 7m east of point D. In which of the following direction is point E, with reference to point B?

- (a) East
- (b) South-East**
- (c) North-East
- (d) South

13. A man is facing west. He turns  $45^\circ$  clockwise direction and then another  $180^\circ$  in the same direction and then  $270^\circ$  in the anti-clockwise direction. Which direction is he facing now?

- (a) **South-west**
- (b) west
- (c) North-west
- (d) South

14. If south-east is called east and south-west is called south and so on. What will north be called?

- (a) North-east
- (b) **North-west**
- (c) East
- (d) South

15. Rahim started cycling straight towards north. He cycled a distance of 8km and then took a right turn and cycled a distance of 3km. Then took a right turn and cycled a distance 1km again. Rahim is facing which direction at present?

- (a) South-east
- (b) North
- (c) **South**
- (d) North-west

16. Sunil walks 5km southward, and then he walks 3km turning to right. Again he turns to his right and walks 5km. He, then turns to his left and walks 5km. How far is he now from his starting point?

- (a) 3km
- (b) 5km
- (c) 6km
- (d) **8km**

17. Ramesh walked 3km towards west and turned to his left and walked 2km. He then turned to right and walked 3km. Finally, he turned to his right and again walked another 2km. In which direction is Ramesh from his starting position?

- (a) East
- (b) **West**
- (c) North
- (d) South

18. Pointing towards a boy, "Veena said, He is the son of only son of my grandfather." How is that boy related to Veena?

- (a) Uncle
- (b) **Brother**
- (c) Cousin
- (d) Data insufficient

19. Raghu and Babu are twins. Babu's sister is Reema. Remma's husband is Rajan. Raghu's mother-in-law is Lakhxmi. Lakhxmi's husband is Rajesh. How Rajesh is related to Rajan?

- (a) Uncle
- (b) Son-in-law
- (c) Brother-in-law**
- (d) Brother

20. Showing the lady in the park, Vineet said, "She is the daughter of my grandfather's only son." How is Vineet is related to that lady?

- (a) Brother**
- (b) Cousin
- (c) Father
- (d) Uncle

21. Pointing to a girl in photograph, Umesh said, "Her mother's son is the only son of my mother's father." How is girl's mother related to Umesh?

- (a) Grandmother**
- (b) Sister
- (c) Aunt/mother
- (d) Aunt

22.  $A+B$  means A is B's daughter.  $A \times B$  means A is B's son.  $A-B$  means A is B's wife. For the relation  $P \times Q-S$ , which of the following statement is true?

- (a) S is P's father**
- (b) P is Q's daughter
- (c) Q is P's father
- (d) S is Q's wife

23. Read the following information carefully and answer the question which follows.

- 1)  $P \times Q$  means P is the brother of Q.
- 2)  $P-Q$  means P is the mother of Q
- 3)  $P+Q$  means P is father of Q
- 4)  $P \div Q$  means P is the father of Q

Which of the following means "M is the grandfather of F?"

- (a)  $M+J-F$**
- (B)  $M-J+F$
- (C)  $M \times T-F$
- (D)  $M \div T+F$

24. If first day of February, 1996 is Wednesday, then what day is the 3<sup>rd</sup> march, 1996?

- (a) Monday
- (b) Sunday
- (c) Saturday**
- (d) Friday

25. It was Sunday on January 1, 2006. Find the day of the week on January 1, 2010?

- (a) Sunday
- (b) Saturday
- (c) Friday**
- (d) Wednesday

26. On February, 2005 it was Tuesday. What was the day of the week on 8<sup>th</sup> Feb, 2004?

- (a) Tuesday
- (b) Monday
- (c) Sunday**
- (d) Wednesday

27. On what dates of April, 2001 did Wednesday fall?

- (a) 1<sup>st</sup>, 8th, 15th, 22nd, 29th
- (b) 2<sup>nd</sup>, 9th, 16th, 23rd, 30th
- (c) 3<sup>rd</sup>, 10th, 17th, 24th
- (d) 4<sup>th</sup>, 11th, 18th, 25th.**

28. On what dates of March 2005 did first Friday fall?

- (a) 4<sup>th</sup>**
- (b) 5<sup>th</sup>
- (c) 6<sup>th</sup>
- (d) 7<sup>th</sup>

29. The calendar of the year 2007 will be same for the year:

- (a) 2014
- (b) 2016
- (c) 2017
- (d) 2018**

30. What was the day of the week on 28<sup>th</sup> May, 2006?

- (a) Thursday
- (b) Sunday**
- (c) Saturday
- (d) Friday

31. The reflex angle between the hands of clock at 10.25 is:

- (a) 180°
- (b) 192¼°
- (c) 195°
- (d) 193°

32. At what time between 5.30 and 6 will the hands of a clock be at right angle?

(a)  $43\frac{1}{4}$  min past 5

**(b)  $43\frac{7}{11}$  min past 5**

(c) 40 min past 5

(d) 45min past 5

33. At what angle the hands of a clock are inclined at 15 minutes past 5?

(a)  $58\frac{1}{2}^\circ$

(b)  $64^\circ$

**(c)  $67\frac{1}{2}^\circ$**

(d)  $72\frac{1}{2}^\circ$

34. At what time between 3 and 4 o'clock, both hands of the clock will coincide each other?

(a)  $5\frac{1}{11}$

(b)  $12\frac{4}{11}$

(c)  $13\frac{4}{11}$

**(d)  $16\frac{4}{11}$**

35. How many times in a day, are the hands of a clock in straight line but opposite in direction?

(a) 20

**(b) 22**

(c) 24

(d) 48

36. EFG: IJK:: MNO:?

(a) PQR

(b) OPQ

**(c) QRS**

(d) NOP

37. RAT: TAR:: PIT:?

(a) BIT

(b) CAT

**(c) TIP**

(d) TOP

38. ACEG: DFHJ:: QSUW:?

- (a) KMNP
- (b) MNPR
- (c) TQST
- (d) TVXZ**

39. EGIK: FILO:: FHJL: ?

- (a) GJMP**
- (b) GMJP
- (c) JGMP
- (d) JGPM

40. GREAT: 25:: NUMBER:?

- (a) 36**
- (b) 38
- (c) 27
- (d) 24

41. Five friends are sitting on a bench. A is to the left of B but on the right of C. D is to the right of B but on the left of E. Who are at the extremes?

- (a) AB
- (b) AD
- (c) BD
- (d) CE**

42. In a class of 40 children, Ravi's rank 8<sup>th</sup> from the top. Priya is fifth rank bellow from Ravi. What is the rank of Priya from the bottom?

- (a) 26
- (b) 27
- (c) 28**
- (d) 29

43. P,Q,R and S are friends. P is shorter then Q but taller than R who is shorter than S. Who is the shortest among all?

- (a) P
- (b) Q
- (c) R**
- (d) S

44. In a certain code the word RESERVATION is written as RNOESITERAV, how the word MANUFACTURE will be coded in the same code?

- (a) MERANTUCUFA
- (b) MERANUTUCFA
- (c) **MERANUTUFCA**
- (d) None

45. In a certain code language, GUEST is written as 53@\$2 and MEAN is written as 6@4#. How is SAME written in that code?

- (a) 4\$6@
- (b) **\$46@**
- (c) \$36@
- (d) None

46. In certain code, 'no more food' is written as 'ta ka da' and 'more than that' is written as 'sa pa ka'. How is 'that' written in that code?

- (a) sa
- (b) pa
- (c) **sa/pa**
- (d) none

47. How many pairs of letters are there in the word PERFORATE each of which has as many letters between them in the word as in the English alphabet?

- (a) **Two**
- (b) Three
- (c) Fourth
- (d) None

48. If the letter of the word POWERFUL are rearranged as they appear in the English alphabet, the position of how many letters will remain unchanged after rearrangement?

- (a) **One**
- (b) Two
- (c) Three
- (d) Four

49. If the position of the first and sixth, second and seventh, third and eighth letter and so on letters of the word BENEFICIAL are interchanged; which letter will be third from the right end after rearrangement?

- (a) E
- (b) **N**
- (c) C
- (d) F



50. How many 9 are followed by an even number and preceded by an odd number in the following series? 469259339467924894

- (a) 4
- (b) 3
- (C) 2**
- (D) 1

## **Sub Unit 2**

1. Complete the series 23 , 33 , 46 , 62 , 81 , 103 , ?

- (a) 128**
- (b) 152
- (c) 142
- (d) 121

2. Find the missing term AC, BE , DH , ? , KQ

- (a) HL
- (b) GL**
- (c) GK
- (d) EL

3. Find the missing term PMT, OOS, NQR,MTQ, ?

- (a) LUR
- (b) LWP
- (c) LMN
- (d) LUP**

4. In the series given below which number will come next?

3 , 3 , 4.5 , 9 , 22.5 , ?

- (a) 87.5
- (b) 66.5
- (c) 67.5**
- (d) 68.5

5. Complete the series abb \_baa \_a \_bab \_aba

- (a) abba**
- (b) abab
- (c) ccac
- (d) aabb

6. Complete the series C2E , E5H , G12K , I27N , ?

- (a) I58P
- (b) J58Q
- (c) K58Q**
- (d) I57Q

7. Complete the series 12 , 18 , 36 , 90 , 270 , ?

(a) 488

**(b) 945**

(c) 910

(d) 972

8. Complete the series 435 , 354 , 282 , 219 , 165 , ?

(a) 103

**(b) 120**

(c) 109

(d) 115

9. Complete the series 71 , 78 , 99 , 134 , 183 , ?

(a) 320

(b) 450

**(c) 246**

(d) 279

10. Find out the wrongly matched term in the series 1 , 5 , 13 , 31 , 61 , 125 , 253

**(a) 31**

(b) 61

(c) 125

(d) 253

11. Find out the wrongly matched term from the series 6 , 10 , 19 , 35 , 61 , 96 , 145

(a) 10

(b) 19

**(c) 61**

(d) 96

12. Complete the series 7, 8, 18, ?, 232, 1165

(a) 84

(b) 42

**(c) 57**

(d) 36

13. Complete the series 4, 8, 24, 60, ?, 224

(a) 178

(b) 96

**(c) 124**

(d) 524

14. Find out the wrong term of the series 2 , 8 , 12 , 20 , 30 , 42 , 56

**(a) 8**

(b) 42

(c) 20

(d) 30

15. Find out the wrong term of the series 69, 55, 26, 13, 5

(a) 69

(b) 55

(c) 26

**(d) 5**

16. Complete the series 3, 4 , 10, 33 , 136, 685 , ?

(a) 3430

(b) 4802

(c) 5145

**(d) 4116**

### Sub Unit 3

1. If a shopkeeper offers 10% discount on the list of price of a toy, his gain is 20% .If he gave discount 20%, his actual gain percentage would be:

- (a)  $6\frac{2}{3}\%$
- (b) 8%
- (c) 10%
- (d) 15%

2. If the cost price of 4 products is equal to the selling price of 3 products, then the profit percentage is:

- (a) 25%
- (b)  $33\frac{1}{3}\%$
- (c) 35%
- (d) 36%

3. If a man has to gain 20% by selling a product, then what will the ratio of cost price and selling price?

- (a) 1:5
- (b) 3:4
- (c) **5:6**
- (d) 2:3

4. The ratio of ages of A and B is 2:5, and ratio of ages of Band C is 3:4. What is the ratio of age of A, B and C?

- (a) **6:15:20**
- (b) 8:5:3
- (c) 6:5:4
- (d) 2:15:8

5. If the angles of a triangle are in the ratio of 11: 5:2, then calculate the difference between biggest and smallest angle:

- (a) 70
- (b) **90**
- (c) 80
- (d) 95

6. In a class of 45 students, the ratio of boys and girls is 2:3. How many boys are to be added to make the ratio of boys and girls 1:1?
- (a) 6
  - (b) 12
  - (c) 9**
  - (d) 15
7. Puneet scored 175 marks in the exam and failed by 35 marks. If the passing percentage of the exam is 35%, then what are the maximum marks of the exam?
- (a) 650
  - (b) 700
  - (c) 600**
  - (d) 750
8. In a school, 40% of the students play football and 50% of the students play cricket. If 18% of the students play neither cricket nor football, then calculate percentage of the students playing both:
- (a) 40%
  - (b) 32%
  - (c) 22%
  - (d) 8%**
9. The ratio of money with Anju and Seema is 7:15 and that with Seema and Vinita is 7:16. If Anju has Rs. 490, how much money Vinita has:
- (a) 400
  - (b) 1500
  - (c) 1800
  - (d) 2400**
10. The ratio between two numbers is 3:4. If each number is increased by 2, then the ratio becomes 7:9. Find the numbers-
- (a) 12 and 14
  - (b) 12 and 16**
  - (c) 10 and 14
  - (d) 9 and 12

11. The price of an article is reduced by 25%. In order to retain the original price of that article, the present price has to be increased:

- (a) 20%
- (b) 30%
- (c) 50%
- (d)  $33\frac{1}{3}\%$**

12. The surface area of the two spheres is in the ratio of 1:4. The ratio of their volume is:

- (a) 1:4
- (b) 1:2
- (c) 1:6
- (d) 1:8**

13. A bag contains Rs. 20, 10 and 5 notes in the ratio of 1:2:4. If their total value is Rs. 3000, then the number of Rs 5 notes is?

- (a) 50
- (b) 100
- (c) 150
- (d) 200**

14. A bag contains Rs 216 in the form of one-rupee, 50-paisa, and 25-paisa coins in the ratio of 2:3:4. The number of 50-paisa coins is:

- (a) 96
- (b) 144**
- (c) 141
- (d) 114

15. If 75% of the students in a school are boys and the number of the girls in the school is 310, then find out the total number of the students in the school?

- (a) 840
- (b) 930
- (c) 950
- (d) 1240**

16. If the profit is three-fourth of the cost price of an article, then find out the percentage of profit:

- (a) 25%
- (b) 33%
- (c) 50%
- (d) 75%**

17. The sum of five numbers is 215. The average of first two is 36.5 and last two is 42.5.  
What is the third number?

- (a) **57**
- (b) 58
- (c) 59
- (d) 60

18. How many numbers between 100 and 300 begin or end with 2?

- (a) 100
- (b) 110
- (c) **120**
- (d) 150

19. 1 woman or 2 men or 3 boys can do a piece of work in 55 days, and then same piece of work can be done by 1 man, 1 woman and 1 boy:

- (a) 15 days
- (b) **30 days**
- (c) 32 days
- (d) 16 days

20. A can do a work in 25 days. When he had worked for 15 days, B replaced him. If he completes the remaining work in 10 days, in how many days B alone can finish the work?

- (a) 20 days
- (b) 24 days
- (c) **25 days**
- (d) 30 days

21. A man covers half of his journey at 12km/h and the remaining half at 36km/h. Find the average speed of the man;

- (a) 15km/h
- (b) **18km/h**
- (c) 20km/h
- (d) 25km/h

22. If the radius of a circle is increased by 20%, then area of the circle will be increased by:

- (a) **44%**
- (b) 36%
- (c) 40%
- (d) 45%



23. At present a person is 4 times older than his son and is 3 years older than his wife. After 3 years the age of the son will be 15 years. The age of the person's wife after 5 years will be:

- (a) 45
- (b) 50**
- (c) 55
- (d) 60

24. Ali buys a glass, a pencil box and a cup and pays ₹ 42 to the shopkeeper. Rakesh buys a cup, two pencil boxes and glass and pays ₹ 56 to the shopkeeper. Preeti buys two glasses, a cup and two pencil boxes and pays ₹ 70 to shopkeeper. The cost of 10 pencil boxes will be:

- (a) 150
- (b) 140**
- (c) 160
- (d) 180

25. Two numbers are in the ratio 3:5, if 9 are subtracted from the numbers, the ratio becomes 15:28 the numbers are

- (a) 30 and 50
- (b) 39 and 65**
- (c) 45 and 75
- (d) None

26. Let A means minus (-), B means multiplied by ( $\times$ ), C means divided by ( $\div$ ) and D means plus (+). The value of  $90 \text{ D } 9 \text{ A } 30 \text{ C } 10 \text{ B } 2$  is:

- (a) 30**
- (b) 50
- (c) 45
- (d) 39

27. 40% of a number is equal to three-fourth of another number. What is the ratio between first and second number?

- (a) 12:19
- (b) 14:17
- (c) 15:8**
- (d) None

28. If A means '+', B means '-', C means '×' and D means '÷'. Then find out the value of 54B4C7A16D8

- (a) 14
- (b) 24**
- (c) 25
- (d) 26

29. If R denotes '÷', T denotes '-', M denotes '+' and W denotes '×' then Find out the value of 27T15R3W4M6

- (a) 7
- (b) 13**
- (c) 23
- (d) 1

30. If 10 is subtracted from two-third of a number the result is equal to the sum of 40 and one-third of that number, then find out that number:

- (a) 150**
- (b) 180
- (c) 210
- (d) 240

31. The income of A and B are in the ratio of 3:2 and the ratio of their expenditure is 5:3. If each saves Rs 5000, then A's income is:

- (a) 20000
- (b) 30000**
- (c) 40000s
- (d) 50000

32. If the price of an article becomes double in six years, then in how many years price of that article will be ten times of its original value?

- (a) 60
- (b) 54**
- (c) 50
- (d) None

33. 40 men can cut 60 trees in 8 hours. If 8 men leave the job, how many trees will be cut in 12 hours?

- (a) 68
- (b) 70
- (c) 72**
- (d) 75

34. The ratio between two numbers is 2:3. If the IR L.C.M is 150, then the numbers are:

- (a) 75, 55
- (b) 105, 77
- (c) 15, 11
- (d) 195, 143**