**METRER SAMPLE QUESTION PAPER-2018(SET I)**

1. In a certain code TEACHER is coded as VGCEJGT. How is CHILDREN written in that code?
2. EJKNEGTP
3. EGKNFITP
4. EJKNFGTO
5. EJKNFTGP Ans: (d)
6. If ROAST is coded as PQYUR how will SLOPPY be coded?
7. MRNAQN
8. NRMNQA
9. QNMRNA
10. RANNMQ Ans: (c)
11. If NARGRUED is coded for GRANDEUR, which word is coded as SERPEVRE?
12. PERSEVER
13. PRESEVER
14. PERSERVE
15. PRESERVE Ans: (d)
16. If E = 5 and HOTEL = 12, how will you code LAMB?
17. 7
18. 10
19. 26
20. 90 Ans: (a)
21. If DESK is written as #$52, RIDE is written as %7#$. How RISK is coded as?
22. %725
23. %752
24. %7#2
25. %7$# Ans: (b)
26. If X is the brother of son of Y’s son, then how is X is related to Y?
27. Brother
28. Cousin
29. Grandson
30. Son Ans: (c)
31. A, B, C are sisters. D is the brother of E and E is the daughter of B. How A is related to D?
32. Sister
33. Cousin
34. Niece
35. Aunt Ans: (d)
36. A is father of C and D is son of B. E is the brother of A. If C is sister of D, how is B related to E?
37. Daughter
38. Brother-in-law
39. Husband
40. Sister-in-law Ans: (d)
41. Acting: Theatre ::Gambling:?
42. Casino
43. Bar
44. Club
45. Gym Ans: (a)
46. Physician : Treatment :: Judge : ?
47. Court
48. Judgement
49. Lawyer
50. Punishment Ans: (b)
51. Reading:Knowledge :: Work : ?
52. Experience
53. Engagement
54. Employment
55. Experiment Ans: (a)
56. 4, 8, 28, 80, 244, ?
57. 278
58. 428
59. 628
60. 728 Ans: (d)
61. 1, 3, 3, 6, 7, 9, ?, 12, 21
62. 10
63. 11
64. 12
65. 13 Ans: (d)
66. 589654237, 89654237, 8965423, 965423, ?
67. 58965
68. 65423
69. 89654
70. 96542 Ans: (d)
71. A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and then turns 270° in anti-clockwise direction. Which direction he is facing now?
72. South
73. North west
74. West
75. South west Ans: (d)
76. Kunal walks 10km towards north. From there he walks 12 km towards south. How far and in which direction is he with reference to his starting point?
77. 2 km south
78. 5 km north
79. 1 km east
80. 8 km west Ans: (a)
81. Manick walked 40 metre towards north, took a left turn and walked 20 metres.

He again took a left turn and walked 40 metres. How far and in which direction is he from starting point?

1. 20 m east
2. 20 m north
3. 20 m west
4. 100 m south Ans: (c)
5. Bisect an angle of 150°.
6. Draw a triangle ABC in which BC = 4cm, AB=AC=3cm.
7. Is it possible to draw a triangle with sides AB=10cm, BC=7cm, CA=8cm.
8. Find: 9$\frac{3}{4}$ ÷ 3$\frac{1}{4}$ Ans: 3
9. Find: 4$\frac{3}{5}$ ˟ $\frac{15}{22}$ ˟ 20$\frac{1}{6}$ ˟ 1$\frac{1}{3}$ Ans: 84$\frac{1}{3}$
10. Find: 6$\frac{2}{5}$ of 3 Ans: 19$\frac{1}{5}$
11. Find the LCM of 105 and 84 by finding their HCF. Ans: 420
12. Write the common factors of 36 and 24. Ans: 1,2,3,4,6,12
13. The HCF of two numbers is 28 and their LCM is 336. If one number is 112, find the other number. Ans: 84.

 **REASONING: (40 MARKS)-SET II(2018)**

**CODING – DECODING**

1. In a certain code language, TEACHER is written as VGCEJGT, then how is CHILDREN written in same code language?
2. ENAGITEV
3. PGTFNKJE
4. EJKNFTGP
5. MGAETVIE
6. None of these

Ans:- (3. EJKNFTGP)

1. If CHAIR is coded as XSZRI and ABOVE is coded as ZYLEV. How EVERY written in that code?
2. WEVIB
3. VEVIB
4. VEBIB
5. VFVIB
6. None of these

Ans:- (2. VEVIB)

1. If LIGHT is coded as LJGIT, how is FLAMES coded in that code?
2. GLBNET
3. FKALER
4. FMANET
5. GLBMFS
6. None of these

Ans:- (3. FMANET)

**BLOOD RELATION**

1. A is mother of B but B is not son of A. Then how is B related to A?
2. Brother
3. Daughter
4. Son
5. Daughter in law
6. None of these

Ans:- (2. Daughter)

1. Pointing towards a man another man said, “He is the son of my father’s sister”. Then what is the relation between them?
2. Father – son
3. Brother
4. Cousin
5. Uncle – Nephew
6. None of these

Ans:- (3. cousin)

1. Introducing a man woman said, that “he is the son of my mother’s brother’s father’s son”. Then how is woman related to that man?
2. Nephew
3. Brother
4. Son
5. Cousin
6. None of these

Ans:- (4. cousin)

**DIRECTION AND DISTANCE**

1. Shyam travels 7km. towards North, then he turn to his right and walks 3km. He again turns to his right and moves 7km forward. Now in which direction is he from his starting point?
2. North
3. South
4. East
5. West
6. Can’t be determined

Ans:- (3. East)

1. Gaurav starts walking in the North direction and travels 5km. then he turns to his left and walks 10km and then he turns to his left and covers the distance of 5km. Now how far is he from his starting point?
2. 5km
3. 20km
4. 10km
5. 15km
6. None of these

Ans:- (3. 10km)

1. Hemant travels 10km towards North then turns left and travels 4km and then he turns to his right and covers another 5km. He then turns to his right and travels another 4km. How far is he from the point of starting his journey?
2. 10km
3. 15km
4. 5km
5. 25km
6. None of these

Ans:- (2. 15km)

**ANALOGY**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | ? |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | ? |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | ? |

 **Ans:-**

|  |  |  |
| --- | --- | --- |
| **1.** | **2.** | **3.** |

**PATTERNS**

1. Continue the pattern.

AB ABB ABBB \_\_\_\_\_\_

1. ABAB
2. AAB
3. ABBBB
4. ABBBBB

Ans:- (3. ABBBB)

1. What number comes next in the pattern?

2, 4, 8, 16, \_\_\_\_\_\_\_

1. 18
2. 24
3. 32
4. 16

Ans:- (3. 32)

1. Select the missing number.

55, 54, 53, 52, \_\_\_\_\_\_

1. 56
2. 51
3. 50
4. 55

Ans:- (2. 51)

**CHAPTER BASED ON “NCERT”: (10 MARKS)**

**FACTOR AND MULTIPLES**

1. Which number is factor of 16?
2. 8
3. 5
4. 9
5. 7

Ans:- (a. 8)

1. A \_\_\_\_\_\_ numbers are divisible by only two numbers 1 and itself.
2. Prime number
3. Composite number
4. Whole number
5. Integers

Ans:- (Prime number)

1. List all the factors of 36?
2. 1, 2, 4, 12, 34
3. 1, 2, 3, 4, 6, 9, 12, 18, 36
4. 1, 4, 6, 23, 21
5. None of the above

Ans:- (b. 1, 2, 3, 4, 6, 9, 12, 18, 36)

**FRACTIONS**

1. In a village there are total 2000 people out of which 2/5 are male. What is the actual number of female in the village?
2. 600
3. 1200
4. 1000
5. 800

Ans:- (b. 1200)

1. The value of 1/3 of 24 is
2. 8
3. 5
4. 12
5. None of the above

Ans:- (a. 8)

1. What is the value of 8/5 – 2/3?
2. 6/15
3. 12/15
4. 14/15
5. None of these

Ans:- (c. 14/15)

**LINES AND ANGLE**

1. A \_\_\_\_\_\_\_ is useful tool to measure an angel.
2. Protractor
3. Scale
4. Compass
5. None of the above

Ans:- (a. Protractor)

1. A total degree in one full turn is \_\_\_\_\_\_\_.
2. 180
3. 90
4. 360
5. None of the above

Ans:- (c. 360 )

1. If two numbers are supplementary then the sum of their measures is \_\_\_\_\_\_\_.
2. 90
3. 45
4. 360
5. 180

Ans:- (d. 180 )

**TRIANGLE**

1. Which triangle has three unequal sides?
2. Equilateral
3. Isosceles
4. Scalene

Ans:- (c. scalene)

1. What type of triangle is ABC, where AB=47km, AC=47km and BC=31km? (Note: km denotes kilometer.)

 A

 B C

1. Equilateral
2. Isosceles
3. Scalene

Ans:- ()

1. What type of triangle has all angles measuring 60 ?
2. Equilateral
3. Isosceles
4. Scalene

Ans:- (a. equilateral)

Class V METRER QUESTIONS

BLOOD RELATIONS

1. My father’s only brother is related to me as ……………..

(a) sister (b) brother (c) cousin (d) uncle

Ans : uncle

2. My mother’s brother’s only son is related to me as my

(a) cousin sister (b) cousin brother (c) uncle (d) none of these

Ans : cousin brother

3. my paternal grandfather’s daughter’s only brother is related to me as…….

(a) uncle (b) son (c) father (d) none of these

Ans : father

CODING DECODING

4. Use the next alphabet to decode …’RPADQ’

(a) RAPID (b) STATIC (c)SONET (d) SOBER

Ans : SOBER

5. Use previous alphabet to decode ….. ‘IBNNFS’

(a) HAMMER (b) THINNER (c) SOONER (d) None of these

Ans : HAMMER

6. Code the word BOX ‘using next alphabet “

(a)COM (b) CPY (c)CPW (d) CPU

Ans : CPY

PATTERNS

7. COMPLETE THE PATTERN- - 17 ,35 ,53 , 71 , ………….

(a) 87 (b) 88 (c) 89 (d) none of the above.

Ans : 89

8. aaa, ccccc ,eeeee,……………………….

(a)gggggg, (b)ggggggg (c)ggggg (d) none of these

Ans : ggggggg

9. 121 , 242 , 363 , ………………..

(a) 848 (b)448 (c) 488 (d) 484

Ans : 484

DIRECTIONS

10. A man started from A and travelled 12 m in EAST, then travelled 13 m NORTH , then travelled 12 m in WEST . Find how far is he now from A and in which direction ?

(a) 12 m NORTH to A (b) 13 m SOUTH to A (c) 13 m NORTH to A (d) None of the above
Ans : 13 m NORTH to A

11. A man facing NORTH takes $\frac{1 }{2}$ rotation in clockwise direction. Which side would he be facing ?

(a) EAST (b) WEST (c) NORTH (d) SOUTH

Ans : SOUTH

12. A man facing EAST takes $\frac{3}{4}$ rotation in anticlockwise direction. Which side should he be facing ?

(a) SOUTH (b) WEST (c) NORTH (d) SOUTH

Ans : SOUTH

13. A man calls jugs – box, box – curtains and curtains – pen. In what do we keep water ?

a) Pen b) curtains c) box d) none of these

Ans : box

14. A man calls pens- sharpener , sharpener- ruler , ruler-eraser .then what do we use for drawing lines ?

a) sharpener , b) ruler c) eraser d) none of these

Ans : eraser

15. A man calls phone –bags , bags – boxes , boxes – switch board. in what do we carry a bottle ?

a) boxes b) switch board c) phone d) none of these

Ans : boxes .

 questions from NCERT

16. a right angled triangle , has one angle equal to …………

Ans : 90$°$

17. An acute angle is greater than but less than …………………..

Ans : 180°

18. Sum of three angles in a triangle is……………

Ans : 180°

19. multiply the fractions : $\frac{15}{16}$ × $\frac{48}{60}$

Ans : $\frac{3}{4}$

20. Divide the fractions :$\frac{3}{16}$ ÷ $\frac{1}{32}$

 Ans : 6

21. A man has two ropes . rope A is 4 m . rope b is 2 m. what fraction is rope B of rope A ?

Ans : $\frac{1}{2}$

22. FIND HCF OF 46, 69 , 115

Ans : 23

23. Find LCM of 40, 60, 100

Ans : 300

24. Bisection of 120° gives ……………… angle .

Ans : 60°

25.trisection of 45° gives each angle equal to

Ans : 15°

26. AB= 9 CM , BC = 12 CM , CA = 4.5 CM . DO THEY FORM A TRIANGLE .

Ans : yes

27. if two angles of a triangle are 75° each , the third angle is …………

Ans : 30°