Divine Public School

Bichhia, Gorakhpur

RAMANUJAN OLYMPIAD 2022-23
CLASSES - III - V

NAME: ……………………………………………………….   ADM. NO. …………..   CLASS ………..   SEC…………   TIME : 1hr.

1. Which is Hardy Ramanujan number ?
a) 1728
b) 1729 ✅
c) 1730
d) 7777

2. How many hundreds are there in 67538 +9462 ?
a) 440
b) 550
c) 660
d) 770 ✅

3. Choose the different one figure.

a)
b)
c)
d) ✅

4. $4 \div 2 \div 2 = ?$
a) 4
b) 1 ✅
c) 8
d) 0

5. In Roman numerals 5000 can be written as –
a) VMMM
b) VM
c) $\overline{VM}$
d) $\overline{V}$ ✅

6. $3\frac{7}{5}$ is a _____ fraction.
a) Proper
b) Improper
c) Mixed
d) None of these ✅

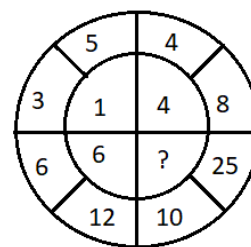7. If P is the brother of Q and L is the sister of Q's son, how is P related to L?
a) Mother
b) Father
c) Brother
d) Uncle ✅

8. If TOOL is coded as 1224, then LOOT will be coded as-
a) 1422
b) 4122
c) 1242
d) 4221 ✅

9. Find the missing number-
a) 5 ✅
b) 10
c) 35
d) 60

10. If + means ÷,
    x means –
    - means x , ÷ means +
    then find the value of
    38 + 19 – 16 x 17 ÷ 3 ?
a) 15
b) 18 ✅
c) 20
d) None of these

11. Give the next two for each of the following-
    A11   D21   G31   J41   M51   P61   _____ , _____
a) S71,V81 ✅
b) T81,S61
c) U51,V41
d) S71,T81

12. ABB4 : CCD3   RSS7 : TTU6   WXX2 : ?
a) YZZ1
b) YYZ1 ✅
c) YYZ3
d) YZ1
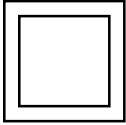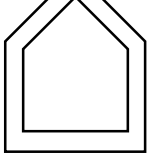
13. Correct incorrect match-
a) Sphere – Basketball
b) Cylinder – Cylindrical tank
c) Match box- cuboid
d) Sugar granules- Cuboid ✅

14. If the first and the sixth letters in the word 'COMPROMISE' were interchanged also the second and seventh letters are interchanged and so on which letter will be seventh letter from the right?
a) I   b) S ✅   c) E   d) R

15. Find the odd one out-

a) ✅   b)   c)   d)

16. If 72 x 96 = 6927 , 58 x 87 = 7885 , then 79 x 86 = ?
a) 7689   b) 8976   c) 6897 ✅   d) 6978

17. Sum of smallest 5 digit number and the greatest 2 digit number is –
a) 100009   b) 100098   c) 10010   d) 10099 ✅

18. The value of sum (CD + DC) in Roman numerals is –
a) CCC   b) DCC   c) CM   d) M ✅

19. Look at the series : 3, 9, 27, 81, _____.
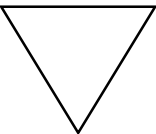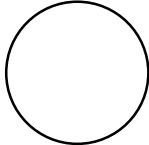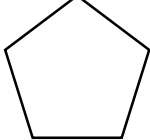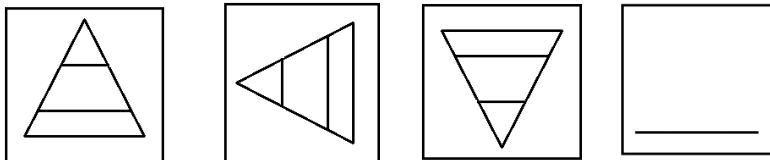What number should come next ?
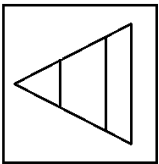a) 243 ✅   b) 162   c) 324   d) 216
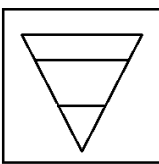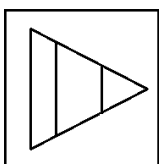
20. How many faces does a cube have?
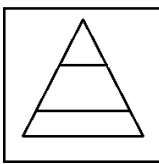a) 12   b) 10   c) 6 ✅   d) 8

21. Shivam use of crayon to draw a shape on a piece of paper. The shape has 6 angles. Which shape could Shivam have drawn?

a)   b)   c)   d) ✅

22. Select the next figure in the pattern-

a)   b)   c) ✅   d)

23. If 'ACNE' is coded as ' 13145' then 'BOIL' will be coded as-
a) 5 31 21 25   b) 2 15 9 12 ✅   c) 5 29 19 25   d) 5 29 19 27

24. Find the missing term from the given alternative –
3, 6, 4, 12, 5, 20, 6, ?
a) 24   b) 15   c) 30 ✅   d) 50

25. Find the odd word from the given alternatives.
a) Asia   b) Europe   c) Australia   d) India ✅
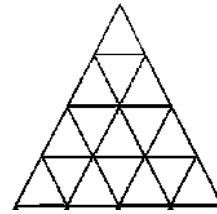
26. which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
a _____ b b c _____ a a b _____ c c a _____ b b c c
a) bacb   b) acba ✅   c) abba   d) caba

27. How many straight lines are there in the following figure ?
a) 9
b) 11
c) 12 ✅
d) None of these

28. How many times do the hand of a clock coincide in a day?
a) 20   b) 21   c) 22 ✅   d) 24

29. How many whole numbers are greater than 9 and less than 60.
a) 60   b) 50 ✅   c) 69   d) 59

30. 4 x 4 x 20 x 20 = 80 x _____
a) 80 ✅   b) 640   c) 120   d) 240
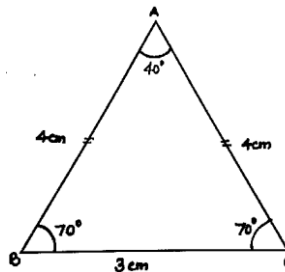
31. Simplify: 9 + 12 − 3 − 2 = ?
a) 9   b) 10   c) 16 ✅   d) 12

32. Which of the following is not an equivalent fraction of $\frac{3}{5}$

a) $\frac{6}{10}$ b) $\frac{12}{20}$ c) $\frac{9}{15}$ d) $\frac{20}{15}$ ✅

33. Identify the figure given below-
a) An equilateral triangle
b) A scalen triangle
c) An isosceles Triangle ✅
d) Both a and c

34. Complete the series 17, 46, 75, 104, _____
a) 117   b) 129   c) 133 ✅   d) 141

35. If the sum of 7 whole numbers is even, at most_____ of the numbers could be odd.
a) 6 ✅   b) 3   c) 7   d) 4