CLASS - VI

1. Which of the following statements is true ?
   i) All primes are odd, ii) All natural numbers are whole numbers
   1) Only (i) 2) Only (ii)
   3) (i) and (ii) 4) neither (i) nor (ii)

2. According to some rule, the numbers 2, 4, 6, 8 and 16 respectively represent 2, 3, 4, 4 and 5, then the number 24 represents
   1) 5 2) 6 3) 7 4) 8

3. The number that differs from others is
   1) 11 2) 7 3) 2 4) 5

4. A Five (5) digit number PQ235 is divisible by 3 such that P+Q <5, then possible values of (P, Q) are
   1) (1, 1) or (4, 0) 2) (1, 1) or (2, 0)
   3) (3, 2) or (2, 3) 4) (2, 0) or (0, 2)

5. A palindrome number of 8 digits is always divisible by
   1) 2 2)4 3) 8 4) 11

6. The mathematician who worte the book "The Elements"?
   1) Kaperkar 2) Euclid 3) Newton 4) Mahalanobis

7. Match the following

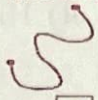
A	B
i) Acute angle	a) 120^0
ii) Right Angle	b) 180^0
iii) Stright angle	c) 60^0
iv) Obtuse angle	d) 90^0

   1) i - c, ii - b, iii - d, iv - a 2) i - c , ii - d, iii - a, iv - b
   3) i - a , ii - d, iii - b, iv - c 4) i - c , ii - d, iii - b, iv - a

8. Ray : 1 :: Line segment :_____
   1) 1 2) 2 3) 3 4) 4

9. Father's age is 5 times his son's age. After 5 years father's age is 3 times his son's age. Present age of son is
   1) 5 years 2) 3 years 3) 10 years 4) 2 years

10. Chose the correct matching

i)  A) Closed Curve

ii)  B) Non Simple Curve

iii)  C) Open Curve

1) i - A, ii - B, iii - C 2) i - C, ii - B, iii - A
3) i - C, ii - A, iii - B 4) i - B, ii - C, iii - A

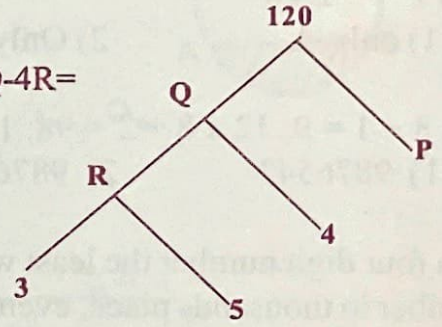
11. Observe the number line :

If A,B,C represent fractions then A + C -B =

1) $\frac{91}{60}$ 2) $\frac{1}{2}$ 3) $\frac{19}{60}$ 4) $\frac{71}{60}$

12. Observe the factor tree of 120

Then 5P+Q-4R=



1) 2Q 2) 5P

3) 4R 4) 3P

13. If $4.175 = \frac{1}{0.2395}$ then $\frac{1}{0.0004175} =$

1) 23.95 2) 2.395 3) 2395 4) 0.00002395

(14-15) By using the digits 3, 7, 5, 0, 6 Ravi formed all 5 digit numbers, and Giri formed all possible 4 digit numbers without repeating the digits

14. How many numbers can Giri form :

1) 48 2) 64 3) 96 4) 24

15. The least number prepared by Ravi

1) 30576 2) 30567 3) 30657 4) 50367

16. Estimation value of 896 x 798

1) 72000 2) 715008 3) 720000 4) 637500

17. The number of dots that can be arranged as a triangle:
1) 2 2) 5 3) 7 4) 10

18. Which letter comes next in the series A C F J _
1) 0 2) Q 3) P 4) R

19. The product of the first ten whole numbers
1) 0 2) 55 3) 3628800 4)362880

20. Assertion : 15 is grater than 12
Reason : 12 lies to the left of 15 on the number line
which of the following statements is true.
1) Both are true and Assertion is correctly explained by the Reason
2) Both are true and Assertion is not correctly explained by the Reason
3) Assertion is true but Reason is false
4) Assertion is false but Reason is true

21. The whole number which satisfies P X P = P is
A) 1 B) 0
1) only A 2) Only B 3) Both A and B 4) neither A or B

22. 1 x 8 + 1 = 9; 12 x 8 + 2 = 98; 123 x 8 + 3= 987 then 1234567x 8 + 7 =
1) 9876543 2) 98765432 3) 987654 4)987654321

23. In a four digit number the least whole number is in Ten's place, first composite number in thousands place, even prime is in units place, hundreads place is three times unit place. the number is
1)4612 2) 4903 3) 4602 4) 5602

24. The _____ of two whole numbers is again a whole number.
A. Sum B. Difference C. Product D. Quotient
1) A, B 2) A, C 3) B, D 4) B, C

25. Ravi brought 15 boxes each containing 127 sweets, and distributed to 375 students each 5. Then the number of sweets that are left.....
1) 30 2) 40 3) 50 4) 20

26. In finding L.C.M through division method, the values of X, Y, Z are

$$\begin{array}{r|l} X & 24, 36, 48 \\ 3 & 6, Y, 12 \\ Z & 2, 3, 4 \\ & 1, 3, 2 \end{array}$$

1) 2, 9, 4 2) 4, 9, 2
3) 6, 6, 2 4) 4, 6,2

27. The number as it is and when reversed also is divisible by 6

1) 82476 2) 45628 3) 51732 4) 68421

28. The greatest number that divides 150, 196, 120 leaving reminders 6, 4 and 8 respectively is

1) 16 2) 12 3) 8 4) 6

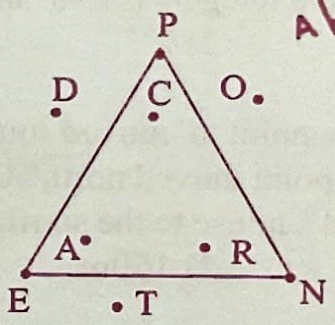
29. Two numbers are in the ratio 3 : 4; their H.C.F is 6 Then L.C.M =

1) 48 2) 144 3) 72 4) 12

30. The shaded portion in the given figure is

1) Chord 2) Minor segment
3) Major segment 4) Arc

31. Points on boundary of the triangle



1) C, A, R
2) D, O, T
3) P, E. N
4) P, E, N, C, A, R

32. Gopi attends study hours from 6 AM - 7.30AM and 7 PM to 9.15PM. He attends school from 9 AM- 12.15 PM and 1.30PM to 4.15PM. Total time he spends on studies ....

1) 9Hr.15min 2) 9Hr.45min 3) 9hr.30min 4) 10Hr.15min

33. The terminal ray rotates with intial ray $\frac{3}{4}$ th of one full rotation, then the angle formed is

1) Obtuse angle 2) Stright angle 3) Reflex angle 4) Acute angle

34. Angle made by minutes hand in one minute is

1) $\frac{1^0}{2}$ 2) 5^0 3) 6^0 4) $5\frac{1^0}{2}$

35. The birth year of Srinivasa Ramanujan
1) 1729 2) 1887 3) 1920 4) 1947

36. The difference of angles made by minutes hand and hours hand per minute is
1) $\frac{1}{2}^{\circ}$ 2) $5\frac{1}{2}^{\circ}$ 3) 6° 4) 1°

37. To find correct measurement of a line segment we must use :
1) Scale 2) Protractor 3) Divider 4) Set square

38. A cow is tied with a rope outside at the corner of a receangular shed. The shape of the region that the cow gazes :
1) Rectangle 2) Triangle 3) Circle 4) Sector

39. $l \parallel m$, $m \perp n$, $n \parallel p$ then
1) $l \parallel p$ 2) $l \perp p$ 3) l and m coinside 4) $m \parallel p$

40. Sum of two positive integers is 216. and their HCF is 27. Number of such pairs :
1) 1 2) 2 3) 3 4) None

41. A man starting at a point 'o' moved south 50m, from there moved 50m towards east and from that point moved north 50m to reach his friends house. The distance between his friend's house to the starting point.
1) 50m 2) 150m 3) 100m 4) 25m

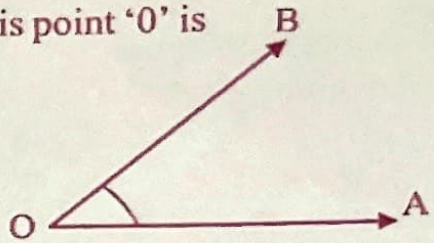
42. Who is popularly known as "Father of Indian Statistics"?
1) Ramanujan 2) P.C.Mahalanobis 3) D.R.Kaprekar 4) B.Bhargav

43. If 1st December is Sunday, next year 1stJanuary falls on ....
1) Tuesday 2) Wednesday 3) Thursday 4) Saturday

44 .Value of (4.7x 13.26) + (9.4x 32.15) + (4.7x22.44) is
1) 47 2) 470 3) 940 4) 4700

45. If 0.75 : x :: 5: 8, then x =
1) 1.12 2) 1.20 3) 1.25 4) 1.30

46. In the figure $\angle AOB = 40^0$ then Reflex angle at this point '0' is



1) 140^0 2) 50^0
3) 320^0 4) 40^0

47. There are some ducks at a pond. Half of them are swimming in the pond. One third of the remaining ducks are sleeping. The balance 10 ducks are grazing. Number of ducks =

1) 24 2) 30 3) 60 4) 40

48. In a mathematics talent test there are 60 questions. Each correct answer will be given one mark and for wrong answer $-\frac{1}{2}$ mark. Ravi attempted all questions, but only twenty are correct. How many marks he get?

1) 0 2) 20 3) 10 4) 30

49. If U represent "-1"; $\cap$ represent "+1" then the value of -3 corresponds to the figure:-

1) $\cup\cap\cup\cap\cup\cap$ 2) $\cup\cup\cap\cup\cup$ 3) $\cup\cap\cap\cup\cap$ 4) $\cap\cup\cup\cap\cup\cup$

50. The fractions $\frac{3}{8},\frac{3}{4},\frac{3}{7},\frac{3}{5}$ in decending order:

1) $\frac{3}{8},\frac{3}{7},\frac{3}{5},\frac{3}{4}$ 2) $\frac{3}{7},\frac{3}{8},\frac{3}{5},\frac{3}{4}$ 3) $\frac{3}{4},\frac{3}{5},\frac{3}{7},\frac{3}{8}$ 4) $\frac{3}{8},\frac{3}{7},\frac{3}{4},\frac{3}{5}$

51. A customer asked cashier to give him 12 hundred rupee notes and 5 five hundred notes. But the casher paid him 12 five hundred notes and 5 hundred notes. How much is the loss or profit to the cashier?

1) Profit Rs.2,800 2) Rs.2500 3) No loss 4) Loss Rs.2800

52. Next number in the series 1, 4, 27, 256, 3125....

1) 39456 2) 46656 3) 36366 4) 42346

53. $x842 - 5y98 = zzzz$ then $x-(y+z) =$

1) 8 2) 2 3) 3 4) 5

54. a - [a - b + {b - c - (a - c)}] =

1) 2(a - b) 2) 0 3) a - b 4) a

55. Sum of four numbers is 240. The first number is one fourth of the sum of the other three numbers. Then the first number is

1) 36 2) 48 3) 72 4) 64

56. P + Q means P is the father of Q; P-Q means P is the wife of Q; P x Q means P is the brother of Q; P ÷ Q means P is the daughter of Q. Then (AxC) ÷ B gives the relation between A and B as ....

1) A is the son of B
2) A is the wife of B
3) A is the daughter of B
4) A is the father of B

(57-58) observe the figure and data, then answer

represents 5 students
represents 4 students
represents 3 students
represents 2 students
represents 1 student.

Class	Number of Students
VI	
VII	
VIII	
IX	
X	

57. Number of more students in VI class than X

1) 6 2) 5
3) 7 4) 4

58. Total number of students

1) 135 2) 145
3) 140 4) 150

(59-60) observe the figure then answer

 = 5 Televisions

59. How many more televisions were sold by C than A

1) 3 2) 15
3) 30 4) 20

Company	Number of tevelivison sets
A	
B	
C	
D	
E	

60. B + D + E > ☐

1) A 2) C
3) A + D 4) C - D