DAV PUBLIC SCHOOL POKHARIPUT BHUBANESWAR
PERIODIC ASSESSMENT – 1   2021-2022
Class VI Subject MATHEMATICS
Max Marks: 40   Date: 28.07.2021

General Instructions:
✓ This question paper contains 40 (MCQ) questions ✓ All questions are compulsory ✓ Q33 to Q36 are Assertion Reasoning type questions ✓ Q37 to Q40 are case study questions ✓ Check your answers thoroughly before submission

1. What power of 2 is 64?
   *(a) 2^6
   (b) 2^8
   (c) 8^2
   (d) 2^{64}

2. Determine the value of $1 – 2 + 3 – 4 + 5 – 6 + …… + 89 – 90$
   (a) 90
   (b) – 90
   *(c) – 45
   (d) 45

3. Simplify: $45 – [38 - \{ 60 ÷ 3 – (9 – 7 + 3) \}]$
   *(a) 22
   (b) 25
   (c) 32
   (d) 27

4. The estimated value of $38 + 72 – 55$ is
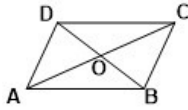   (a) 40
   *(b) 50
   (c) 70
   (d) 150

5. The maximum number of points of intersection using four lines is _____
   (a) 3
   (b) 5
   *(c) 6
   (d) 4

6. A line segment
   *(a) has two end points
   (b) extends in both the directions
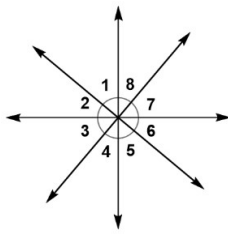   (c) extends in one direction only
   (d) has length and breadth

7. The number of line segments in the following figure is _____

(a) 6
*(b) 10
(c) 12
(d) 8
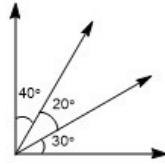
8. The greatest 2-digit number exactly divisible by 17 is
    (a) 68
    (b) 91
    (c) 97
    *(d) 85

9. If $\angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6 + \angle 7 = 320°$. The value of $\angle 8$ is _____
    (a) 45°
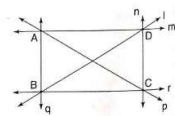   *(b) 40°
    (c) 230°
    (d) 275°

10. The number of angles in the following figure is _____
    (a) 3
    (b) 4
    (c) 5
    *(d) 6

11. Which of the following Roman numerals is incorrect.
    (a) LXXX
    (b) LXX
    *(c) LLX
    (d) LX

12. From the given figure, name the point at which lines r, l and q meet.

    (a) D
    *(b) B
    (c) A
    (d) C

13. If a bicycle wheel has 36 spokes, then the angle between a pair of adjacent spokes is _____
    *(a) 10°
    (b) 12°
    (c) 15°
    (d) 20°

14. The value of 325 x (-641) + 325 x (-359) is _____
    (a) 32500
    (b) -32500
    (c) 325000
    *(d) -325000

15. The value of 75 x 25 + 25 x 25 is
    (a) 125
    (b) 250
    *(c) 2500
    (d) 47500

16. The product of the place value and face value of 4 in 76085432 is _____
    *(a) 1600
    (b) 400
    (c) 160
    (d) None of these

17. If the sum of the two angles is equal to an obtuse angle, then which of the following is not possible?
    (a) One obtuse angle and one acute angle
    (b) One right angle and one acute angle
    (c) Two acute angles
    *(d) Two right angles

18. P, Q, and R are any three points in a plane. Join them in pairs. How many lines can you get if P, Q, and R are not collinear?
    (a) 4
    *(b) 3
    (c) 1
    (d) 5

19. In the given figure, name the lines that are concurrent at point G

    (a) q, n, l
    (b) l, p, m
    *(c) r, q, p
    (d) r, n, m

20. Refer the figure in Question. 19, Find one set of non-collinear points from above:

(a) DGA
*(b) AGC
(c) AEC
(d) CGF

21. Which of the following doesn't lie to the right side of (– 57) on the number line?

   (a) – 10
   (b) 18
   (c) – 49
   *(d) – 73

22. Find the least number that should be subtracted from 1000 so that 30 divides the difference exactly
   (a) 33
   *(b) 10
   (c) 990
   (d) None of these

23. The sum of two integers in 48. If one of them is – 25, the other integer is _____
   (a) 32
   (b) 63
   (c) 23
   *(d) 73

24. The number of diagonals in a Quadrilateral is _____
   *(a) 2
   (b) 4
   (c) 6
   (d) 8

25. Which of the following statement is true?
   (a) Only one line can pass through one given point.
   *(b) Infinite lines can pass through one given point.
   (c) Only three lines can pass through one given point.
   (d) None of these

26. Which of the following is representing 807 B.C in a correct way?
   (a) + 807
   *(b) – 807
   (c) |807|
   (d) None of these

27. In a quiz competition there were 30 questions. 2 Marks was allotted to every correct answer and – 1 to every wrong answer. Radhika attempted 28 questions. Out of which 3 were wrong. Calculate the score.
   (a) 53
   (b) 56
   *(c) 47
   (d) 50
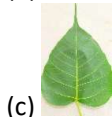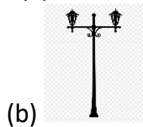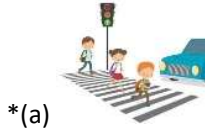
28. XLVII – XXXV = _____
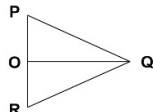   *(a) 12
   (b) 22
   (c) 32
   (d) 15

29. Find the odd one out: HINT: Not used to construct line segments.
   *(a) Protractor
   (b) Ruler
   (c) Compass
   (d) Divider

30. Identify the real time example of a parallel line

   *(a)

   (b)

   (c)
   (d) None of these

31. For the given figure   PR – OR = _____
   (a) PQ
   (b) OQ
   *(c) PO
   (d) QR

32. Find the alphabets having vertically opposite angles
   (a) A
   *(b) X
   (c) H
   (d) Y

CASE STUDY: A boat was sailing from Kolkata port to Mumbai port. The observer noticed at the beginning that the boat was sailing towards South. After a while he has noticed that sailing towards south-east.

33. Through what degree the boat was turned in sailing from south to south-east?
   (a) 180°
   (b) 90°
   *(c) 45°
   (d) 135°

34. To sail in north direction, through what degree the boat has to be turned from south-east in anti-clockwise direction?

*(a) 225°
(b) 135°
(c) 45°
(d) 145°

35. The supplement of 135° is _____
    *(a) 45°
    (b) 55°
    (c) 35°
    (d) 65°

36. The complement of supplement of thrice of 50° is _____
    (a) 150°
    (b) 30°
    (c) 40°
    *(d) 60°

37. ASSERTION (A): The sum of largest negative integer and the smallest positive integer is 0.
REASON (R): The largest negative integer is -1 and the smallest positive integer is 1.
    *(a) Both A and R are true and R is the correct explanation of A
    (b) Both A and R are true but R is NOT the correct explanation of A
    (c) A is true but R is false
    (d) A is false but R is true

38. ASSERTION (A): The successor of the smallest whole number is the smallest natural number.
REASON (R): The smallest whole number is 0 and the smallest natural number is 1.
    *(a) Both A and R are true and R is the correct explanation of A
    (b) Both A and R are true but R is NOT the correct explanation of A
    (c) A is true but R is false
    (d) A is false but R is true

39. ASSERTION (A): | 3 X (-5)| = (-3) X (-5) REASON (R): The absolute value of any integer other than 0 is always positive and product of two negative integer gives a positive integer.
    (a) Both A and R are true and R is the correct explanation of A
    (b) Both A and R are true but R is NOT the correct explanation of A
    *(c) A is true but R is false
    (d) A is false but R is true

40. ASSERTION (A): Product of (1+2+3+4) and -10 is zero. REASON (R): Additive inverse of -10 is +10.
    (a) Both A and R are true and R is the correct explanation of A
    (b) Both A and R are true but R is NOT the correct explanation of A
    *(c) A is false but R is true
    (d) A is true but R is false