

**ATOMIC ENERGY EDUCATION SOCIETY
HALF-YEARLY EXAMINATION (2018-19)**

CLASS: VI

DATE OF EXAM: 01-10-2018

TIME: 3 HOURS

SUBJECT: MATHEMATICS

MARKS: 80

General Instructions

Question paper consists of four sections A, B, C and D.

1. Section A consists of 6 questions of 1 mark each.
 2. Section B consists of 6 questions of 2 marks each.
 3. Section C consists of 10 questions of 3 mark each.
 4. Section D consists of 8 questions of 4 marks each.
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SECTION –A (6 MARKS)

(6 x 1 M= 6 M)

1. $3 \times 10000 + 7 \times 1000 + 9 \times 100 + 0 \times 10 + 4$ is the same as
(A) 3794 (B) 37940 (C) 37904 (D) 379409
2. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is
(A) 9652 (B) 9562 (C) 9659 (D) 9965
3. The successor of 1 million is
(A) 2 millions (B) 1000001 (C) 100001 (D) 10001
4. The number of diagonals of a triangle is
(A) 0 (B) 1 (C) 2 (D) 3
5. Number of whole numbers lying between -5 and 5 is
(A) 10 (B) 3 (C) 4 (D) 5
6. When $\frac{1}{4}$ is written with denominator as 12, its numerator is
(A) 3 (B) 8 (C) 24 (D) 12

SECTION-B (12 MARKS)

(6 x 2 M=12 M)

7.a) Add $1\frac{1}{4}$ and $6\frac{1}{2}$

b) Subtract $\frac{1}{6}$ from $\frac{1}{2}$

8. Find the value using property: (a) $2973 \times 17 + 2973 \times 3$ (b) 654×102

9. Express the following as the sum of two odd primes. (a) 44 (b) 36

10. Draw a quadrilateral ABCD. Draw the diagonals and name them.

11. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from (a) 3 to 9 (b) 1 to 10

12. a) Arrange the following integers in the ascending order: -2, 1, 0, -3, +4, -5

b) Write two integers whose sum is less than both the integers.

SECTION-C (30 MARKS)

(10 x 3 M= 30 M)

13. Find the LCM of 160, 170 and 90.

14. Determine the sum of the three numbers as given below:

(a) successor of 32 (b) predecessor of 49 (c) predecessor of the predecessor of 56

15. Simplify by rounding off to nearest hundreds:

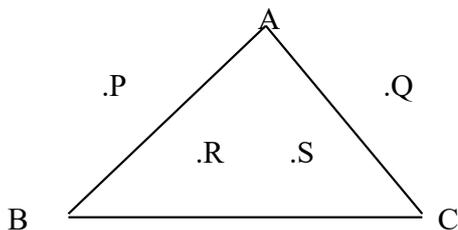
(a) $439 + 334 + 4,317$ (b) $1,08,734 - 47,599$

16. Find the common factors of 4, 12 and 16

17. Write the smallest 4-digit number and express it in terms of its prime factors.

18. In the given figure name the points

a) in the interior of the triangle b) in the exterior of the triangle and c) on the triangle

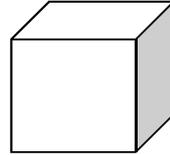


19. The given figure is a cube. Write down

a) the number of faces

b) the number of edges

c) the number of vertices



20. Using the number line, write the integer which is

(a) 4 more than -5

(b) 3 less than 7

21. a) What fraction of a day is 6 hours?

b) Write the natural numbers between 1 and 13. What fraction of them are prime numbers?

22. Three tankers contain 168 L, 252 L and 378 L of oil respectively. Find the maximum capacity of the container that can measure the oil of the three tankers in exact number of times.

SECTION-D (32 MARKS)

(8 x 4 M= 32 M)

23. The town newspaper is published every day. One copy has 12 pages. Everyday 11,980 copies are printed. How many total pages are printed in the month of January?

24. Test the divisibility of following numbers by 11

(a) 5335

(b) 9020814

25. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

26. Draw a rough sketch of a quadrilateral PQRS. State

(a) two pairs of opposite sides

(b) two pairs of opposite angles

(c) two pairs of adjacent sides

(d) two pairs of adjacent angles

27. Draw any circle and mark

- (a) its centre
- (b) a radius
- (c) a diameter
- (d) a sector
- (e) a segment
- (f) a point in its interior

28. Draw the face of the clock to show the position of the hour hand of a clock if it starts

- (a) from 6 and turns through 1 right angle?
- (b) from 2 and makes $\frac{1}{2}$ of a revolution, clockwise?

29. (a) The least integer lying between -10 and -15 is.....

(b) The predecessor of the integer 1 is

(c) $30 + (-25) + (-10) = \dots\dots\dots$

(d) The opposite of 60 km south is.....

30. Sunil purchased $12\frac{2}{3}$ litres of juice on Monday and $4\frac{3}{4}$ litres of juice on Tuesday.

How many litres of juice did he purchase together in two days?

