



विद्या सर्वार्थ साधिका

**ANANDALAYA**  
**PERIODIC TEST – 3**  
**Class: VIII**

Subject: Mathematics  
Date : 06 – 01 – 2025

M.M: 40  
Time: 1Hr. 30 min.

**General Instructions:**

- This question paper contains 21 questions. All questions are compulsory.
- This question paper is divided into 4 sections – A, B, C and D.
- In Section-A, Questions 1 – 9 are multiple choice questions (MCQ's) each of 1 mark.
- In Section-B, Questions 10 – 15 are very short-answer type questions carrying 2 marks each.
- In Section-C, Questions 16 – 20 are short -answer type questions carrying 3 marks each.
- In Section D, Question 21 is a long answer type question carrying 4 marks.
- There is no overall choice. However, an internal choice has been provided in 2 questions in Section-B and 2 questions in Section-C.
- Question 21 in Section D is a case study-based question carrying 4 marks with subparts of values of 1, 1 and 2 mark each respectively.

**SECTION-A**

- The sum of  $-7pq$  and  $2pq$  is \_\_\_\_\_. (1)  
(A)  $-9pq$  (B)  $9pq$  (C)  $5pq$  (D)  $-5pq$
- Which of the following is a binomial? (1)  
(A)  $7 \times a + a$  (B)  $6a^2 + 7b + 2c$  (C)  $4a \times 3b \times 2c$  (D)  $6(a^2 + b)$
- The marked price of an article is ₹80 and it is sold at ₹76, then the discount percent is \_\_\_\_\_. (1)  
(A) 5% (B) 95% (C) 10% (D) appx. 11%
- Area of a rectangle with length  $4ab$  and breadth  $6b^2$  is \_\_\_\_\_. (1)  
(A)  $24a^2b^2$  (B)  $24ab^3$  (C)  $24ab^2$  (D)  $24ab$
- If we subtract  $-3x^2y^2$  from  $x^2y^2$ , we get \_\_\_\_\_. (1)  
(A)  $-4x^2y^2$  (B)  $-2x^2y^2$  (C)  $4x^2y^2$  (D)  $2x^2y^2$
- Which of the following are like terms? (1)  
(A)  $5xyz^2$ ,  $-3xy^2z^2$  (B)  $5xyz^2$ ,  $5x^2yz$   
(C)  $-5xyz^2$ ,  $7xyz^2$  (D)  $5xyz^2$ ,  $x^2y^2z^2$
- The volume of a cube whose edge is  $3x$  is \_\_\_\_\_. (1)  
(A)  $27x^3$  (B)  $9x^3$  (C)  $6x^3$  (D)  $3x^3$
- The area of a rhombus is  $240 \text{ cm}^2$ . If one diagonal is 16 cm, find the length of the other diagonal. (1)  
(A) 30 cm (B) 15 cm (C) 60 cm (D) 24 cm
- A statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct answer out of the following options. (1)  
(A): The base radius and height of a right circular cylinder are 14 cm and 5 cm respectively. Its curved surface area is  $220 \text{ cm}^2$   
(R): A curved surface area of a cylinder is obtained by multiplying the circumference of the base by the height of the cylinder.  
(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

**SECTION-B**

- Find the selling price of a watch, if the marked price is ₹1200 and the discount is 12%. (2)

11. The population of a town 2 years ago was 62500. Since some people migrate to different cities the number of people decreases every year at the rate of 4% per annum, find the present population of the town. (2)