BURARI PUBLIC SCHOOL

...a venture with UNIQUE

PERIODIC TEST – II (2026-27)

CLASS: IX

SUBJECT- MATHEMATICS Date___/___/_____

Time: 1 hour 30 min **M.M.: 40**

Name: ……..... Roll No..…….... T. sign.....

GENERAL INSTRUCTIONS:

- **This question paper has 5 sections.**
- **In section A, Question no. 1- 8 are MCQs and Question no. 9 -10 are Assertion – Reason based Question of 1 mark each.**
- **In Section B, Question no. 11-15 are very short answer (VSA) type questions, carrying 2 marks each.**
- **In Section C, Question no. 16-18are short answer (SA) type questions, carrying 3 marks each.**
- **In Section D, Question no. 19-20 are long answer (LA) type questions, carrying 4marks each.**
- **In Section E, Question no. 21 is case based study question, carrying 3 marks.**

Section – A

Q1. The coordinates of a point lying on the x-axis are:

a) (0, y)

b) (x, 0)

c) (x, y)

d) (0,0)

Q2. Which of the following points lies in the third quadrant?

a) (–2, 4)

b) (2, –4)

c) (–2, –4)

d) (4, 2)

Q3. The zero of the polynomial P(X) = X – 7 is:

a) –7

b) 0

c) 7

d) 1

Q4. **The degree of the polynomial 3X + 5 is:**

a) 0

b) 1

c) 2

d) 3

Q5. Which number is irrational?

a) 0.25

b) √25

c) √7

d) 3/5

Q6. If HCF = 6 and LCM = 180 of two numbers, and one number is 18, then the other number is:

a) 60
b) 45
c) 72
d) 30

Q7. Which point represents the origin?

a) (1,0)
b) (0,1)
c) (0,0)
d) (1,1)

Q8. The polynomial having exactly one term is called:

a) Binomial
b) Trinomial
c) Monomial
d) Constant polynomial

For each question choose:

a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
b) Both Assertion and Reason are true but Reason is not the correct explanation.
c) Assertion is true but Reason is false.
d) Assertion is false but Reason is true.

Q9.

Assertion: Every rational number can be represented on a number line.
Reason: Rational numbers include integers and fractions.

Q10.

Assertion: The graph of a linear polynomial is a straight line.
Reason: The highest power of variable in a linear polynomial is 1.

Section – B

Q11. Plot the points A(2,3) and B(–3,2). Identify their quadrants.
Q12. Find the zero of the polynomial: p (X) = 5X – 5
Q13. Express 0.272727… in the form of p/q.
Q14. Find the HCF and LCM of 24 and 36 using prime factorization.
Q15. Determine whether √45 is rational or irrational. Give reason.

Section – C

Q16. Plot the points P(4,0), Q(0,–5), and R(–3,–2). Identify whether the points lie on an axis or in a quadrant.
Q17. Draw the graph of the equation y = 3X + 4. Also find the Coordinates of the points where these lines cut the y- axis.
Q18. Draw √2 on number line.

Section – D

Q19. A mobile phone is bought for ₹ 10000. It's value decrease by ₹800 every year.
i) Find the value of the phone after 3 years.
ii) Make a table of values for t varying from 0 to 8 years and show how the values of the phone, v , depreciates with time.

Q20. Plot the points A (2,1) , B (-1,2) , C (-2 -1) and D (1,-2) in the Coordinate plane. Is ABCD a square? Also find area of this figure.

Section – E

Q21. Students prepared a coordinate map of stalls:
Robotics Stall → A(2,4)
Math Lab → B(–3,4)
Art Gallery → C(–3,–2)
Answer the following:
(i) In which quadrant is the Robotics Stall located?
(ii) Which two stalls lie on the same horizontal line?
(iii) Which stall is nearest to the y-axis? Give reason.