Total Time: 3:00 Hours

Mathematics (9th)

(Full Course)

Total Marks: 75

Note: There are three sections in this paper i.e. A, B & C.

VERSION : A

Instructions:
- Please attempt Section-A on the MCQs Answer Sheet only.
- Only black ball point or marker may be used for shading the relevant circle.
- Please make sure that there is no cutting, over writing, erasing, or multiple circles shading.

Time Allowed: 20 Minutes

"Section-A"

Marks: 15

Q.1. Choose the correct option i.e. A,B,C or D.

1. A square matrix M is said to be symmetric if .....

Ⓐ $M = M^{-1}$ Ⓑ $M = -M$ ● $M = M^t$ Ⓓ $M = -M^t$

2. $\sqrt{3}$ is ..... number.

Ⓐ A rational ● An Irrational Ⓒ An integer Ⓓ A natural

3. $42.5 \times 10^2 =$ .....

Ⓐ 4.25×10^{-1} Ⓑ 4.25×10^1 ● 4.25×10^3 Ⓓ 4.25×10^{-3}

4. In the expression $4x - 5y + 2, -5$ is .....

Ⓐ Constant term Ⓑ Variable ● Co-efficient Ⓓ Exponent

5. $(a-b)(a^2+ab+b^2) =$ .....

Ⓐ $a^2 - b^2$ ● $a^3 - b^3$ Ⓒ $(a-b)^3$ Ⓓ $(a-b)(a^2-b^2)$

6. $x^2 - xy - 3xy + 3y =$ .....

● $(x-y)(x-3)$ Ⓑ $(x-y)(x+3)$ Ⓒ $(x+y)(x-3)$ Ⓓ $(x+y)(x+3)$

7. HCF of $x^2 - y^2$ and $x^2 - xy$ is .....

Ⓐ $x^2 - y^2$ ● $x - y$ Ⓒ $x + y$ Ⓓ $x^2 - xy$

8. Solution of $2x + 3 = -6x$ is .....

● $x = -\frac{3}{8}$ Ⓑ $x = \frac{3}{8}$ Ⓒ $x = \frac{2}{3}$ Ⓓ $x = -\frac{2}{3}$

9. $x > 0$ and $y < 0$ represent the quadrant .....

Ⓐ I Ⓑ II Ⓒ III ● IV

10. A triangle having all the three sides equal is .....

Ⓐ Scalene Ⓑ Isosceles ● Equilateral Ⓓ None of these

11. Which of the following is not sufficient condition for the congruency of two triangles?

Ⓐ $A \cdot S \cdot A \cong A \cdot S \cdot A$ ● $A \cdot A \cdot A \cong A \cdot A \cdot A$ Ⓒ $H \cdot S \cong H \cdot S$ Ⓓ $S \cdot A \cdot A \cong S \cdot A \cdot A$

12. Sum of the measures of all the interior angles of a square is .....

Ⓐ 90° Ⓑ 180° ● 360° Ⓓ 720°

13. The bisectors of angles of a triangle are .....

Ⓐ Common Ⓑ Corresponding ● Concurrent Ⓓ Collinear

14. The sum of the length of any two sides of a triangle is ..... the length of the third side.

Ⓐ Less than Ⓑ Equal to Ⓒ Congruent ● Greater than

15. Area of a triangle with base 4 cm and altitude 6 cm is .....

Ⓐ $6\ cm^2$ Ⓑ $10\ cm^2$ ● $12\ cm^2$ Ⓓ $24\ cm^2$