

Section-A

Multiple Choice Questions

Q. 1 Choose the correct answer for each from the given options:

- (i) If $A \supseteq B$ then $A \cup B =$ _____
 (a) A (b) B (c) \emptyset (d) U
- (ii) The mean proportional between a^2 and b^2 is _____
 (a) \sqrt{ab} (b) ab (c) a/b (d) $-ab$
- (iii) For matrix A, $(A^1)^{-1}$ _____
 (a) A^{-2} (b) A (c) A^{-1} (d) A^2
- (iv) If α, β are the roots of $x^2 - 2x - 15 = 0$, then the value $(\alpha^2 + \beta^2) =$ _____
 (a) 34 (b) -34 (c) 26 (d) -26
- (v) An improper fraction can be reduced into proper fraction by:
 (a) Addition (b) Multiplication (c) Subtraction (d) Division
- (vi) The ungrouped data must be ordered first to find _____
 (a) A.M (b) Mode (c) Median (d) Range
- (vii) If 5 cm and 12 cm are two sides of a right angled triangle. Then hypotenuse is:
 (a) 16 cm (b) 15 cm (c) 14 cm (d) 13 cm
- (viii) Two equilateral triangles are also _____
 (a) Congruent (b) Similar (c) Proportional (d) Equivalent
- (ix) Inscribed angle of _____ is obtuse.
 (a) Minor arc (b) Major arc (c) Semi-circle (d) All of these
- (x) Angle between tangent and radial segment at the point of contact is angle.
 (a) Right (b) Obtuse (c) Acute (d) Reflex
- (xi) The sum of central angles of all the arcs of a circle is _____
 (a) 90° (b) 108° (c) 120° (d) 135°
- (xii) The ungrouped data must be ordered first to find _____
 (a) A.M (b) Mode (c) Median (d) Range
- (xiii) If 5 cm and 12 cm are two sides of a right angled triangle. Then hypotenuse is:
 (a) 16 cm (b) 15 cm (c) 14 cm (d) 13 cm
- (xiv) Two equilateral triangles are also _____
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- (xv) Inscribed angle of _____ is obtuse.
 (a) Minor arc (b) Major arc (c) Semi-circle (d) All of these
- (xvi) Angle between tangent and radial segment at the point of contact is angle.
 (a) Right (b) Obtuse (c) Acute (d) Reflex
- (xvii) The maximum number of common tangents between two circles touching externally is _____
 (a) 0 (b) 1 (c) 2 (d) 3
- (xviii) Diameter divides the circle into _____ parts.
 (a) Two (b) Three (c) Four (d) All of these
- (xix) Each interior angle of regular hexagon is equal to _____
 (a) 90° (b) 108° (c) 120° (d) 135°