



SSC Multi-Tasking Staff (Non Technical) Exam Mock Test -2 (Numerical Aptitude)

26.

Simplify : $1 + \frac{1}{1 + \frac{2}{2 + \frac{3}{1 + \frac{4}{1 + \frac{5}{5}}}}}$

- (a) $1\frac{11}{17}$ (b) $1\frac{5}{7}$ (c) $1\frac{6}{17}$ (d) $1\frac{11}{17}$

27. Assume that

$$\sqrt{13} = 3.605 \text{ (approximately)}$$

$$\sqrt{130} = 11.40 \text{ (approximately)}$$

Find the value of: $\sqrt{13} + \sqrt{1300} + \sqrt{0.013}$

- (a) 36,164 (b) 37,304
(c) 36,304 (d) 37,164

28. On simplification of $\frac{(2.644)^2 - (2.356)^2}{0.288}$ We

get:

- (a) 1 (b) 4 (c) 5 (d) 6

29. Evaluate : $\frac{9 \div 3 - 5 \mid -5 \mid 4 \mid \div 10}{-3(5) - 2 \times 4 \div 2}$

- (a) $\frac{9}{10}$ (b) $-\frac{8}{17}$ (c) $-\frac{16}{19}$ (d) $\frac{4}{7}$

30.

By how much does $\sqrt{12} + \sqrt{18}$ exceed $\sqrt{3} + \sqrt{2}$?

- (a) $2\sqrt{3} - \sqrt{2}$ (b) $2\sqrt{3} - \sqrt{2}$
(c) $\sqrt{3} + 2\sqrt{2}$
(d) $\sqrt{2} - 4\sqrt{3}$

31. The value of $\sqrt{5+2\sqrt{6}} - \frac{1}{\sqrt{5+2\sqrt{6}}}$ is:

- (a) $2\sqrt{2}$ (b) $2\sqrt{3}$ (c) $1+\sqrt{5}$ (d) $\sqrt{5}-1$

32. The value of $(243)^{0.16} \times (243)^{0.04}$ is equal to:

- (a) 0.16 (b) 3
(c) $\frac{1}{3}$ (d) 0.04

33. The simplification of

$$\frac{0.06 \times 0.06 \times 0.06 - 0.05 \times 0.05 \times 0.05}{0.06 \times 0.06 + 0.06 \times 0.05 + 0.05 \times 0.05}$$

gives:

- (a) 0.01
- (b) 0.001
- (c) 0.1
- (d) 0.02

34.

$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{7} + \frac{1}{14} + \frac{1}{28}$ is equal to :

- (a) 2
- (b) 2.5
- (c) 3
- (d) 3.5

35. $5 - [4 - \{3 - (3 - 3 - 6)\}]$ is equal to:

- (a) 10
- (b) 6
- (c) 4
- (d) 0

36. If the square root of 841 is 29, then 0.00000841 is equal to :

- (a) 0.029
- (b) 0.0029
- (c) 0.00029
- (d) 0.29

37.

The value of $\sqrt{2^4} + \sqrt[3]{64} + \sqrt[4]{2^8}$ is:

- (a) 12 (b) 16 (c) 18 (d) 24

38. If $a * b = 2a - 3b + ab$, then $3 * 5 + 5 * 3$ is equal to:

- (a) 22
- (b) 24
- (c) 26
- (d) 28

39. What is the square root of 0.09?

- (a) 0.3
- (b) 0.03

(c) 0.003

(d) 3.0

40.

Simplify : $\left[\sqrt[3]{\sqrt{5^9}} \right]^4 \left[\sqrt[3]{\sqrt{5^9}} \right]^4$

(a) 52

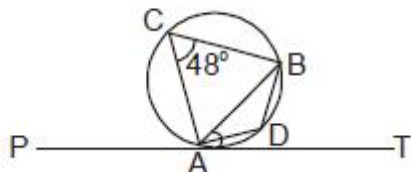
(b) 54

(c) 58

(d) 512

41.

In the given figure, find $\angle ADB$



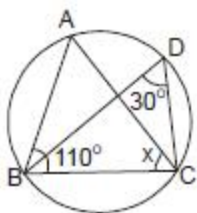
(a) 132°

(b) 144°

(c) 48°

(d) 96°

42. In the following figure, find x



(a) 40°

(b) 25°

(c) 30°

(d) 45°



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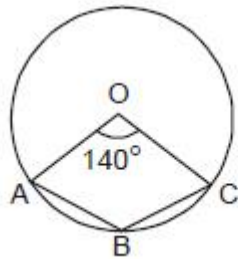
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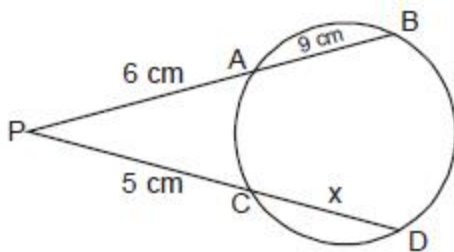
43.

In the following figure, it is given that O is the centre of the circle and $\angle AOC = 140^\circ$. Find $\angle ABC$



- (a) 110°
- (b) 120°
- (c) 115°
- (d) 130°

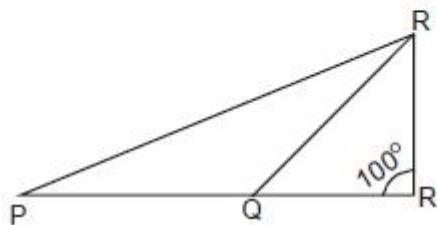
44.



- (a) 13 cm
- (b) 12 cm
- (c) 16 cm
- (d) 15 cm

45.

In the figure below, $PQ = QS$, $QR = RS$ and $\angle SRQ = 100^\circ$. Find $\angle QPS$



- (a) 20°
- (b) 40°

- (c) 15°
- (d) 735°

46. The following points $(3a, 0)$, $(0, 3b)$, $(a, 2b)$ forms a

- (a) straight line
- (b) triangle
- (c) equilateral triangle
- (d) None of these

47. The points $A(-1, 4)$, $B(5, 2)$ are the vertices of a triangle of which $C(0, -3)$ is centroid, then the third vertex C is

- (a) 4, 15
- (b) 4, -15
- (c) -4, -15
- (d) None of these

48.

Acute angle between the lines with slopes $\frac{3}{4}$

and $-\frac{1}{7}$ is

- (a) 60°
- (b) 45°
- (c) 30°
- (d) None of these

49. Which of the following expression is a polynomial in two variables?

- (a) $x^2 - 2xy + y^2 - x + y$
- (b) $x^3 + y^3 + z^3 - 1$
- (c) $x^2 + 3x + 2$
- (d) $x^2 - 2x^2 + 3x + 5$

50. The degree of the polynomial $2x^3 - 5x^2 + x - 3$ is

- (a) 2
- (b) 3
- (c) 1
- (d) 0



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