

47. What is  $\frac{\sin \theta}{\operatorname{cosec} \theta} + \frac{\cos \theta}{\sec \theta}$  equal to ?

- (a) 1
- (b)  $1/2$
- (c)  $1/3$
- (d) 2

48. If  $\tan \theta + \sec \theta = 4$ , then what is the value of  $\sin \theta$  ?

- (a)  $8/17$
- (b)  $8/15$
- (c)  $15/17$
- (d)  $23/32$

49. What is the value of

$$\cos \left\{ \cos^{-1} \frac{4}{5} + \cos^{-1} \frac{12}{13} \right\} ?$$

- (a)  $63/65$
- (b)  $33/65$
- (c)  $22/65$
- (d)  $11/65$

50. What is the angle subtended by 1 m pole at a distance 1 km on the ground in sexagesimal measure ?

- (a)  $\frac{9}{50\pi}$  degree
- (b)  $\frac{9}{5\pi}$  degree
- (c) 3.4 minute
- (d) 3.5 minute

51. If  $\cot A \cdot \cot B = 2$ , then what is the value of  $\cos(A + B) \cdot \sec(A - B)$  ?

- (a)  $1/3$
- (b)  $2/3$
- (c) 1
- (d) -1

52. Consider the following statements :

- 1. Every zero matrix is a square matrix.
  - 2. A matrix has a numerical value.
  - 3. A unit matrix is a diagonal matrix.
- Which of the above statements is/are correct ?

- (a) 2 only
- (b) 3 only
- (c) 2 and 3
- (d) 1 and 3

53. If the sequence  $\{s_n\}$  is a geometric progression and  $s_2 s_{11} = s_p s_8$ , then what is the value of  $p$  ?

- (a) 1
- (b) 3
- (c) 5
- (d) can not be determined

54. In the expansion of  $(1 + x)^n$ , what is the sum of even binomial coefficients ?

- (a)  $2^n$
- (b)  $2^{n-1}$
- (c)  $2^{n+1}$
- (d) None of the above

55. The value of the term independent of  $x$

in the expansion of  $\left(x^2 - \frac{1}{x}\right)^9$  is :

- (a) 9
- (b) 18
- (c) 48
- (d) 84

56. What is the number of ways that 4 boys and 3 girls can be seated so that boys and girls alternate ?

- (a) 12
- (b) 72
- (c) 120
- (d) 144

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**A. S. Kalra**



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