

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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Jerry Bobrow



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