

ONE MARK TEST

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ENGLISH MEDIUM

LESSON – 8

TEST - 3

- 1 A page is selected at random from a book. The probability that the digit at units place of the page number chosen is less than 7 is
(A) $\frac{3}{10}$ (B) $\frac{7}{10}$ (C) $\frac{3}{9}$ (D) $\frac{7}{9}$
- 2 Which of the following is incorrect?
(A) $P(A) > 1$ (B) $0 \leq P(A) \leq 1$ (C) $P(\phi) = 0$ (D) $P(A) + P(\bar{A}) = 1$
- 3 Kamalam went to play a lucky draw contest. 135 tickets of the lucky draw were sold. If the probability of Kamalam winning is $\frac{1}{9}$, then the number of tickets bought by Kamalam is
(A) 5 (B) 10 (C) 15 (D) 20
- 4 The standard deviation of a data is 3. If each value is multiplied by 5 then the new variance is
(A) 3 (B) 15 (C) 5 (D) 225
- 5 If the mean and coefficient of variation of a data are 4 and 87.5% then the standard deviation is
(A) 3.5 (B) 3 (C) 4.5 (D) 2.5
- 6 The sum of all deviations of the data from its mean is
(A) Always positive (B) always negative (C) zero (D) non-zero integer

- 7 If a letter is chosen at random from the English alphabets $\{a, b, \dots, z\}$, then the probability that the letter chosen precedes x
- (A) $\frac{12}{13}$ (B) $\frac{1}{13}$ (C) $\frac{23}{26}$ (D) $\frac{3}{26}$
- 8 Which of the following is not a measure of dispersion?
- (A) Range (B) Standard deviation
(C) Arithmetic mean (D) Variance
- 9 The probability a red marble selected at random from a jar containing p red, q blue and r green marbles is
- (A) $\frac{q}{p + q + r}$ (B) $\frac{p}{p + q + r}$ (C) $\frac{p + q}{p + q + r}$ (D) $\frac{p + r}{p + q + r}$
- 10 The mean of 100 observations is 40 and their standard deviation is 3. The sum of squares of all observations is
- (A) 40000 (B) 160900 (C) 160000 (D) 30000