

ONE MARK TEST

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ENGLISH MEDIUM

LESSON – 8

TEST - 2

- 1 Variance of first 20 natural numbers is
(A) 32.25 (B) 44.25 (C) 33.25 (D) 30
- 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 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
- 4 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) $\frac{3}{26}$
- 5 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) $\frac{p + r}{p + q + r}$
- 6 A purse contains 10 notes of 2000, 15 notes of 500, and 25 notes of 200. One note is drawn at random. What is the probability that the note is either a 500 note or 200 note?
(A) $\frac{1}{5}$ (B) $\frac{3}{10}$ (C) $\frac{2}{3}$ (D) $\frac{4}{5}$

- 7 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) $\frac{7}{9}$
- 8 The range of the data 8, 8, 8, 8, 8, ... 8 is
- (A) 0 (B) 1 (C) 8 (D) 3
- 9 If the standard deviation of x, y, z is p then the standard deviation of $3x + 5, 3y + 5, 3z + 5$ is
- (A) $3p + 5$ (B) $3p$ (C) $p + 5$ (D) $9p + 15$
- 10 Which of the following is not a measure of dispersion?
- (A) Range (B) Standard deviation
(C) Arithmetic mean (D) Variance