

(2)

(b) The fourth moment about the mean measures

(i) mean

(ii) variance

(iii) skewness

(iv) kurtosis

(Choose the correct option)

(c) What is random event?

(d) If A and B are mutually exclusive events, then the probability of occurrence of either A or B denoted by P shall be given by ____.

(Fill in the blank)

(e) Normal distribution is a limiting case of binomial distribution when

(i) n , the number of trials is infinitely large, i.e., $n \rightarrow \infty$

(ii) neither p nor q is very small

(iii) Both (i) and (ii)

(iv) None of the above

(Choose the correct option)

(3)

(f) Sampling errors are non-existent in complete enumeration survey.

(Write True or False)

(g) If $r = -1$, it means there is ____ relationship.

(Fill in the blank)

(h) If $b_{xy} = -0.8$ and $b_{yx} = -1.2$, the correlation coefficient will be

(i) 0.98

(ii) -0.98

(iii) 98

(iv) None of the above

(Choose the correct option)

2. Write short notes on any four of the following : 4×4=16

(a) Conditions for an ideal measure of dispersion

(b) Probability density function

(c) Sample space and events

(d) Non-sampling errors

(e) Standard error of estimation