

(b) The third moment about the mean measures

- (i) variance
- (ii) skewness
- (iii) kurtosis
- (iv) coefficient of standard deviation

( Choose the correct answer )

(c) When 3 dices are thrown, the exhaustive number of cases is \_\_\_\_.

( Fill in the blank )

(d) When a dice is thrown, occurrence of an even number and an odd number are \_\_\_\_ events.

- (i) exhaustive
- (ii) compound
- (iii) complementary
- (iv) simple

( Choose the correct answer )

(e) When we reject a true null hypothesis, \_\_\_\_ error occurs.

- (i) Type I
- (ii) Type II
- (iii) Both (i) and (ii)
- (iv) None of the above

( Choose the correct answer )

(f) When  $r = +1$ , it means there is \_\_\_\_ relationship.

( Fill in the blank )

(g) If  $r = 0.6$  and  $N = 64$ , the probable error will be

- (i) 0.074
- (ii) 0.064
- (iii) 0.054
- (iv) 0.044

( Choose the correct answer )

(h) The base period should be a

- (i) year of distant past
- (ii) year when earthquake occurs
- (iii) year when war happens
- (iv) normal one

( Choose the correct answer )

2. Write short notes on any *four* of the following  
(within 150 words each) : 4×4=16

- (a) Kurtosis
- (b) Binomial distribution
- (c) Methods of sampling
- (d) Point estimation
- (e) Time-reversal and factor-reversal test
- (f) Spearman's rank correlation test