

## Business Statistics

### Federal Board FBISE ICOM II Paper 2018 Supplementary

#### SECTION -A (Marks 10)

Time allowed: 15 Minutes

**Note:** Section - A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 15 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not **allowed**. Do not use lead pencil.

**Q.1** Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given **there**. Each part carries one mark.

(i)	The data which have not undergone through any statistical process are called:			
	A. Primary Data	B. Discrete Data	C. Secondary Data	D. Qualitative Data
(ii)	A measure computed from sample data is called:			
	A. Parameter	B. Statistic	C. Statistics	D. Data
(iii)	Cumulative frequency distribution is graphically presented by:			
	A. Ogive	B. Histogram	C. Bar Chart	D. Pie Chart
(iv)	The number of observations falling in a particular class is known as:			
	A. Class Frequency	B. Class Mark	C. Class Limit	D. Mid point
(v)	If $\sum(X-11)=6$ , $\sum(X-30)=19$ & $\sum(X-17)=0$ then mean of X is:			
	A. 11	B. 30	C. 17	D. 19
(vi)	Sum of deviations taken from mean is:			
	A. Positive	B. Zero	C. Negative	D. Minimum
(vii)	If Laspayr's index = 116 & Paasche's index = 110 then Fisher's index is=?			
	A. 110.96	B. 116.00	C. 113.69	D. 112.96
(viii)	In chain base method the base period is:			
	A. Fixed	B. Constant	C. Not Fixed	D. Zero

(ix)	n(n-1)(n-2).....3.2.1 is equal to:			
	A. $\sum n$	B. $\sum(n)(n-1)$	C. $n!$	D. $n(n-1)$
(x)	Probability of a sure event is equal to:			
	A. 0	B. 1	C. -1	D. 0.5

Time allowed: 2:15 Hours

Total Marks Section Band C: 40

**SECTION-B (Marks 24)**

**Q.2 Attempt any eight parts. The answer to each part should not exceed 3 to 4 lines. (8 x 3 = 24)**

- (i) Define sample and population.
- (ii) Define descriptive and inferential statistics.
- (iii) Define histogram and histogram.
- (iv) Describe any three qualities of a good statistical table.
- (v) Find arithmetic mean given that  $x=10+5U$ ;  $\sum fu = -40$ ;  $\sum f=125$
- (vi) For a moderately skewed distribution mode = 60 and median = 30. Find mean.
- (vii) The logarithm of five values of x are: 1.8062, 1.2304, 1.6532, 1.5798, and 1.4314 Find  $\bar{X}$ .
- (viii) Define price relative and link relative.
- (ix) For the given link relatives 100, 120, 102, 118 & 112, find chain indices.
- (x) Define simple event and composite event.
- (xi) A pair of dice is rolled find the probability that both faces are same:

**SECTION - C (Marks: 16)**

**Note: Attempt any TWO questions. All questions carry equal marks. (2x8=16)**

**Q.3 Find mean, median and mode for the following data:**

<b>Weight</b>	35--39	40--44	45--49	50--54	55--59	60--64
<b>Frequency</b>	3	10	21	15	1	4

**Q.4 Construct Index number for 1995 from the following data taking 1990 as base.**

- (i) Laspeyre's Method
- (ii) Paasche's method
- (iii) Fisher Ideal Method

Items	1990		1995	
	Price	Quantity	Price	Quantity
<b>A</b>	10	120	12	100
<b>B</b>	8	150	10	130
<b>C</b>	12	80	13	70
<b>D</b>	15	60	20	50

**Q.5** Three coins are tossed. Find the following probabilities:

- (a) At most one head appear
- (b) Same faces appear
- (c) Head on the first coin

*The End*

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