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Business Statistics

Federal Board FBISE ICOM II Paper 2017 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 any statistical treatment, are:				
	A. Primary Data	B. Secondary Data	C. Discrete data	D. Continuous data	
(ii)	In the plural sense, statistics means:				
	A. Method	B. Numerical data	C. Sample data	D. Population data	
(iii)	The graph of time series is:				
	A. Pie-Chart	B. Ogive	C. Histogram	D. Historigram	
(iv)	Relative frequency can never be:				
	A. Less than one	B. More than one	C. Equal to one	D. Equal to two	
(v)	The median of 3,4, 5, 6, 9, 10, 12 is:				
	A. 5	B. 9	C. 6	D. 5.5	
(vi)	The most frequent value in the data is:				
	A. Mean	B. Median	C. Mode	D. Standard Devitaion	
(vii)	In fixed base method, the base period should be:				
	A. Far away	B. Normal	C. Abnormal	D. Unreliable	
(viii)	The weights in a price index are:				
	A. Average of prices	B. Percentage of prices	C. Not important	D. Quantities	

(ix)	When two coins are tossed, the possible outcomes are:				
	A. 1	B. 2	C. 4	D. 36	
(x)	If A and B are two independent events then:				
	A. $P(A) = P(B)$	B. $P(A \cap B) = P(A)P(B)$	C. $P(A \cap B) \neq P(A)P(B)$	D. $P(A/B) = P(B)$	

Time allowed: 2:15 Hours **Total Marks Sections 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. What is Statistics?
ii. Name the methods of collecting primary data.
iii. What is Histogram?
iv. Differentiate between qualitative and quantitative data.
v. Monthly earnings of 10 employees are: 100, 120, 130, 110, 109, 101, 150, 190, 170, and 200. Calculate average earning of employees.
vi. For a certain distribution, the value of mean is 15 and median is 20. What will be the value of mode?
vii. If $\bar{X} = 15$ and $Y = 3X + 9$, then find $\bar{Y}$.
viii. Define an index number.
ix. Construct chain base index number for the following data:

Year:	**1941**	**1942**	**1943**	**1944**	**1945**	**1946**
Price:	122	124	118	125	128	135

x. State addition law of probability for mutually exclusive events.
xi. What are independent events?

SECTION - C (Marks: 16)

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

Q.3 Calculate median and mode of the following distribution.

Weight	0—7	7—14	14—21	21—28	28—35	35—42	42—49
Frequency	19	25	36	72	51	43	28

Q.4 Show with the help of following data that Fisher's index is Geometric mean of Laspeyre's and Paasche's index.

Commodity	**Base Year**		**Current Year**	
	Wheat	**Sugar**	**Ghee**	**Cotton**
A	12	50	10	55

B	6	100	4	120
C	5	55	3	60
D	10	30	5	35

Q.5 Show that in a single throw with two dice, the chance of throwing more than 7 is equal to that of throwing less than 7 and hence find probability of throwing exactly 7.

The End