

Business Statistics

Federal Board FBISE ICOM II Paper 2016

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.

Q.1 Circle the Correct Option i.e. A/B/C/D. Each Part Carries 1 Mark.				
(i)	Statistics must be:			
	A. Comparable	B. Not Comparable	C. Discrete in nature	D. Qualitative in nature
(ii)	A measure computed from sample data is called:			
	A. Parameter	B. Statistic	C. Statistics	D. Data
(iii)	The process of arranging data into rows & columns is called:			
	A. Array	B. Classification	C. Tabulation	D. Frequency Distribution
(iv)	Graph of frequency distribution is:			
	A. Histogram	B. Ogive	C. Histogram	D. Pie Chart
(v)	In a symmetrical distribution mean, median & mode are always:			
	A. Negative	B. Different	C. Unequal	D. Equal
(vi)	$D = X - c$ means the change of:			
	A. Scale	B. Origin	C. Origin & Scale	D. Units of Measurement
(vii)	Laspeyres' Index is also called:			
	A. Geometric mean of Paasche's & Fisher's Index	B. Ideal Index	C. Current Year Weighted	D. Base Year Weighted

(viii)	Index for base period is:			
	A. One	B. Fix	C. 100	D. More than 100
(ix)	When a die and coin are rolled together, then the possible outcomes are:			
	A. 6	B. 2	C. 12	D. 36
(x)	The probability of sure event is:			
	A. 1	B. 100	C. 0	D. 0.5

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) Define population and sample.
- (ii) What is a pie-chart?
- (iii) If $l = 28, fm = 25, fl = 20, f2 = 18$ and $h = 7$, compute mode.
- (iv) Distinguish between variable and constant.
- (v) Define mode.
- (vi) In a certain distribution mean is 45 and mode is 50 then find median.
- (vii) What is difference between fixed base and chain base method?
- (viii) Compute index numbers by taking 1957 as base year.

Year	1955	1956	1957	1958	1959	1960	1961
Price	14	15	16	17	18	19	20

- (ix) Define mutually exclusive events.
- (x) Solve the following:

$$(a) \quad P \quad (b) \quad C$$

$$\frac{8}{3}$$

SECTION - C (Marks: 16)

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

Q.3 Calculate arithmetic mean by using:

- (a) Direct method
- (b) Step-deviation method

Marks	No. of Students
30--39	1

40--49	3
50--59	11
60--69	21
70--79	43
80--89	32
90--99	9

Q.4 Calculate Chain Index numbers for the following data. Use Median as an average.

Year	A	B	C	D
1958	94	98	82	122
1959	98	83	97	105
1960	96	87	95	107
1961	94	82	97	112

Q.5 From a pack of playing cards, a card is drawn at random, find the probability that the drawn card is:

- (i) Ace card
- (ii) A red card
- (iii) A king or a queen
- (iv) A jack of clubs

The End

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