

Business Statistics

Federal Board FBISE ICOM II Paper 2014

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)	A measure computed from sample data is:			
	A. Parameter	B. Statistic	C. Statistics	D. Data
(ii)	Number of Farz in five prayers is an example of:			
	A. Discrete Variable	B. Constant	C. Attribute	D. None of these
(iii)	A sector diagram is also called:			
	A. Bar Diagram	B. Histogram	C. Pie Diagram	D. Historigram
(iv)	In a relative frequency distribution, the total of relative frequencies is equal to:			
	A. 100	B. 1	C. $\sum f$	D. 0
(v)	For a certain distribution, if $\sum(x - 20) = 25$, $\sum(x - 25) = 15$ and $\sum(x - 35) = 0$, then \bar{X} is equal to:			
	A. 20	B. 25	C. -35	D. 35
(vi)	The sum of deviation is zero, when deviations are taken from:			
	A. Median	B. Mean	C. Mode	D. Geometric Mean
(vii)	If Laspayer's Index = 110, Paasche's Index = 108, then Fisher ideal Index is:			
	A. 110	B. 109	C. 100	D. None of these
(viii)	What is called a number that measures a relative change in a single variable with respect to a base?			

	A. Good Index Number	B. Quantity Index Number	C. Simple Index Number	D. Composite Index Number
(ix)	Two coins are tossed. Probability of getting head on first coin is:			
	A. 2/4	B. 1	C. 0	D. 4
(x)	Two events A and B are said to be mutually exclusive if:			
	A. $A \cup B = \emptyset$	B. $A \cap B = S$	C. $A \cap B = \emptyset$	D. $A \cap B = S$

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 Descriptive & Inferential Statistics?
- (ii) Define Histogram, Histogram and Tabulation.
- (iii) Represent the following data by Pie-Charts?

Districts	Lahore	Multan	Rawalpindi	Gujrat
Area	50	115	135	165

- (iv) In a moderately skewed distribution, the value of median is 42.8 and the value of mode is 40, find mean.
- (v) Define Price Relative & Link Relative.
- (vi) Given $W = 20, 25, 30, 40$ and $I = 100, 105, 110 \& 120$. Find weighted average of relative Index Number
- (vii) The deviation about $X = 180$ are 4, 11, -8, -12, 7, 9, 16, 9, 13, 15. Calculate Arithmetic Mean.
- (viii) Describe the qualities of a good average?
- (ix) If three coins are tossed what is the probability of getting:
 - (a) At least two heads (b) Two tails
- (x) Suppose $P(A) = 1/4$, $P(B) = 1/3$ and $P(A \cup B) = 1/2$. Determine $P(A \cap B)$.
- (xi) Given $X = 10 + 5U$, $\sum fU = 308$, $\sum f = 7$. Find A.M

SECTION - C (Marks: 16)

Note: Attempt any TWO questions. All questions carry equal marks. (2x8=16)
Q.3 Calculate Mean, Median Mode from the following data:

Max. load	No. of Cables
9.3—9.7	2
9.8—10.2	5

10.3—10.7	12
10.8—11.2	17
11.3—11.7	14
11.8—12.2	6
12.3—12.7	3
12.8—13.2	1

Q.4 Construct Price Index number for 2000 on the basis of 1990.

- (i) Base Year Weighted Method
- (ii) Current Year Weighted Method
- (iii) Fisher Ideal Index

Items	1990		2000	
	Price	Quantity	Price	Quantity
A	2	10	4	8
B	4	5	5	6
C	5	8	6	10
D	3	20	3	25

Q.5 (a) A class contains 10 men and 20 women of which half of the men and half of the women have brown eyes. Find probability that a person chosen at random is a man or has brown eyes.

(b) A dice is rolled. Find the probability of getting complete square.

The End

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