MGT/S–1/V/13

2013

Time : 3 hours

Full Marks : 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any four questions in which Q. No. 1 is compulsory.

1. Select the most appropriate option of the following :

    (a) A statistics can :

    (i) Prove anything

    (ii) Disprove anything

    (iii) Neither prove nor disprove anything, it is just a tool

    (iv) None of these

SA – 5/2 (Turn over)

(b) Arithmatic mean is equal to :

(i) $\dfrac{N}{2}$

(ii) $\dfrac{\Sigma X}{N}$

(iii) $\dfrac{\Sigma fx}{N}$

(iv) Both (ii) and (iii)

(c) Median is :

(i) The most frequent value

(ii) The middle most value

(iii) The least frequent value

(iv) Mean of first and last values

(d) First quartile in continuous series is the value of :

(i) $\dfrac{N}{4}$

(ii) $\dfrac{N+1}{4}$

(iii) $\dfrac{N+1}{2}$

(iv) None of these

(e) The arithmetic mean of 2, 3, 4, 5 and 6 is :

(a) 3

(ii) 5

(iii) 4

(iv) 6

(f) Probability of drawing a green ball from a bag containing 6 white, 8 red and 5 black balls is :

(i) $\dfrac{1}{19}$

(ii) 0

(iii) $\dfrac{5}{19}$

(iv) $\dfrac{2}{5}$

(g) Mark the following as True **or** False :

(i) Data collected by other persons are called secondary data. (T/F)

(ii) Data originally collected in the process of investigation are known as primary data. (T/F)

(iii) Statistics means quantitative data only. (T/F)

(iv) Statistics only infuses error in the formulation of economic policies. (T/F)

2. Define Statistics and state its limitations.

3. Compute the Median and Mode from the following data :

Mark (X)	No. of Student (f)
0 – 10	30
10 – 20	40
20 – 30	50
30 – 40	48
40 – 50	24
50 – 60	162
60 – 70	132
70 – 80	14

4. Calculate Arithmetic Mean of the following data :

Class Interval	Frequency
10 – 20	4
20 – 40	10
40 – 70	26
70 – 120	8
120 – 200	2

5. Find the coefficient of Standard Deviation from the following data :

X	f
50	1
51	2
52	2
53	6
54	3
55	4
56	2
57	0

SA – 5/2   (5)

6. Find the coefficient of correlation from the following data :

X	Y
9	15
8	16
7	14
6	13
5	11
4	12
3	10
2	8
1	9

7. Discuss the role of Quantitative technique in decision making.

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