

Total No. of Questions : 4]

SEAT No. :

PB-28

[Total No. of Pages : 2

[6268]-222

S.E. (Comp./AI & DS) (Insem)

STATISTICS

(2019 Pattern) (217528) (Semester - IV)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Use of Calculator is allowed.

- Q1)** a) Explain types of Sampling. [5]  
b) What is Statistics? Explain its importance. [5]  
c) Explain the importance of sampling and state its limitations. [5]

OR

- Q2)** a) What is distrust of Statistics? Explain the limitations of Statistics. [5]  
b) State the difference between Population and Sampling. Explain the process of sampling. [5]  
c) What is random sampling? Explain its types. [5]

- Q3)** a) Calculate the median marks of students from the following distribution:[5]

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	3	6	13	15	14	5	4

- b) What is harmonic mean? Explain its merits and demerits. [5]  
c) Draw the frequency polygon for the following data: [5]

Class Interva	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	4	6	8	10	12	14	7	5

OR

P.T.O.

- Q4)** a) Consider the following frequency distribution. Calculate the mean weight of students: [5]

Weight (in Kg)	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75
No. of students	9	6	15	3	1	2	2	1	1

- b) What is mode? How is it calculated? State its merits. [5]  
c) Draw the Histogram for the following data : [5]

Height in meters	0-3	3-6	6-9	9-12	12-15
No. of Trees	80	100	120	90	50

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