Statistical tech- Semz statistical

P30/P32/CMP221/EE/20190206

Marks: 80 Time: 3 Hours

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- 1. All Questions are Compulsory.
- 2. Each Sub-question carry 5 marks.
- Each Sub-question should be answered between 75 to 100 words. Write every questions 3. answer on separate page.
- 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
- 1. Solve any four sub-questions.

a)	Write properties of CDF of continuous RVX.	5
b)	What are merits and demerits of standard deviation?	5
(c)	What is the meaning of G.M (Geometric Mean)?	5
d)	Explain component Bar Diagram.	5
e)	What are the requirements of a good statistical table?	5

Solve any four sub-questions. 2.

a)	What is the scope and importance of statistics?	5
b)	Write tests based on Chi-square distribution.	5
c)	Define mode write merits and demerits of mode.	5
d)	How to classify data?	5
e)	What is critical Region and Acceptance Region?	5

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- Solve any four sub-questions.
 - a) The CDF of a r.v.x is given below. Using it obtain

5

- i) pmf of x
- ii) $p(x \le 2)$
- iii) $p(x \le 4)$
- iv) p(x > 4)
- v) E(x) and v(x)

x	1	2	3	4	5	6
f(x)	0.08	0.26	0.50	0.68	0.93	1.00

b) Write note on counting techniques.

5

c) What are tests for variances?

5

d) Define continuous random variable. Give suitable examples.

5

c) In which situations regression equations can be applied.

5

- 4. Solve any four sub-questions.
 - a) What is the meaning of conditional probability? Write multiplicative law.
- 5
- b) Explain Inclusive and Exclusive method of frequency distribution.
- 5

c) Explain uniform distribution.

5

d) Write note on union and intersection of events.

5

e) Write applications of correlation in various fields.

5



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