

Total No. of Questions – [3]

Total No. of Printed Pages: 1

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OCTOBER 2019 / INSEM (T1)

S. Y. B.TECH. (E&TC) (SEMESTER – III)

COURSE NAME: Probability & Statistics

COURSE CODE: ES21182ET

(PATTERN 2018)

Time: [1 Hour]

[Max Marks: 20]

(*) Instructions to candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed.
- 4) Use suitable data where ever required.

Q.N O	Sub Q.NO	Marking Scheme	Marks	Difficulty Level	Cognitive level	CO Mapped
Q1	a)	P(A) = 0.001 then P(A ^c) = 0.999 P(A B) = 0.165	2 Each	M	Understandi ng	CO1
		Sample space Table of possible combinations P(A) = 11/16	3			
	b)	P(A) = 0.4 P(B) = 0.084	2 Each	M	Understandi ng	CO1
		P(A _i) = 1/10 P(B) = 1/10	2 Each	M		
Q2	a)	Value of C -2 CDF -2 P(t>3) -2 P(t>7 t>3) -2	[8]	M	Knowledge	CO2
	b)	PDF -2 CDF-2 Mean -2 Variance -2	[8]	M	Application	CO2
Q3	a)	Joint PDF -2 Marginal PDF -2	[4]	H	Comprehensi on	CO3
	b)	Value of K -2 Marginal PDF and dependence -2	[4]	H	Comprehensi on	CO3