lumbar)

Enrollment	No.		

Supplementary Examination- ONLINE MODE (CBCS) <Programme Name Btech> <II SEM> (Jan, 2022)

Tim	ject Code:< BAS 108 >			1240	1000	St	ubjec	t: < Probability	and Statistics	>
	e: 1 Hour 15 minutes									mum Marks : 3
Not	e: Q. 1 is compulsory.	Atter	npt ar	y one o	uesti	on fr	om t	ne rest.		
Q1	The state of the s						128.0			
	(a) Suppose V back	l.								(5*3=15
	 (a) Suppose X has the moment generating function m_X(t) = (1 - 2t)^{-1/2} for t < 1/2 Find the second moment of X. (b) A normal distribution has the mean 0.1 and the standard deviation 2.1. Find the probability that mean of a sample of size 900 will be negative. 									
my										
	(c) An individual ha	. 2 -	11							
	(c) An individual ha whereas 20% come	into a	maii a	ccounts	d the	rom:	ner n	nessages, in fac	t 70% come	nto account #3
	account #1, only 1%	are	spam,	wherea	s the	corre	espor	ding percentag	ges for #2 and	e messages int f #3 are 2% an
	5%, respectively. Wi	nat is	the pr	obabilit	y tha	t a ra	ndon	nly selected me	ssage is a spa	m?
				1-		1				
Q2				Tax.	- 100					
42	(a) Let the joint prob	abilie	ı, don	in f	4	C (1)	7. 17. 1	400000000000000000000000000000000000000		(7.5+7.5= 15
			(x+y ~	~ n		2	1 2		
	September 1	f(x, y)	$) = \{$	2 ,1	- 0,	y > 0), 3X	+ y < 3 rwise		
	The same of the same of the same		(0,		3	othe	rwise		
	Find the probabil	ity P	(Y -	V) Alco	find	+h-a ==				
	(b) In a state with	100	dame	the nr	ohah	lity t	nargi	nai density fun	ction of X.	
	government declare	ca de	ought	if adda.	- 7F	illey t	.nat i	a dam is dry i	s U./. For a	year, the stat
	government declares	3 d a a	ougnt	il atiea:	. /3	Jams	are o	iry, while the c	entral govern	ment declares
	drought if atleast 80	o uan	is are	ary. U	sing r	orma	al ap	proximation, fi	nd the proba	bility that for
	year, the decision o	r tne	state	govern	ment	to de	eclar	a drought is	not approved	by the centra
	government.									
									The state of the s	
	Markey Million							Carlo Control		
23					lub.					(7.5+7.5= 15
23	(a) The time to pass	throu	igh a s	ecurity	scree	ning	at an	airport follow	s an exponen	2-1 0 - 1
23	(a) The time to pass The mean time to	Jass	unou	en the	secur	ITV S	Creet	ning is 15 min	ushan To out	tial distribution
Q3	passenger must clea	r the	secur	en the	secur	ITV S	Creet	ning is 15 min	ushan To out	tial distribution
Q3	passenger must clea passenger will miss th	r the ne flig	secur	ity scre	ening	with	in 15	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	tial distribution
23	passenger must clea passenger will miss th	r the ne flig	secur	ity scre	ening	with	in 15	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	tial distribution
Q3	passenger must clea passenger will miss the (b) Obtain the equat	r the ne flig	secur ht?	ity scre	ening	with ssion	fron	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	tial distribution
Q3	passenger must clea passenger will miss th	r the ne flig	secur ht?	ity scre	ening	with	in 15	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	tial distribution
Q3	passenger must clea passenger will miss the (b) Obtain the equat	r the ne flig	secur ht? of the	ity scre	regre	with ssion	fron	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	L at the
Q3	passenger must clea passenger will miss th (b) Obtain the equat	r the ne flig	secur ht? of the	ity scre	ening	with ssion	fron	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	tial distribution
23	passenger must clea passenger will miss th (b) Obtain the equat	r the ne flig	secur ht? of the	lines of	regre	ssion 6	fron	ning is 15 min 5 minutes. Wha	utes. To cate at is the prob	tial distribution

I have followed these instructions provided by the examination division during last end-term examination, December 2021 for paper setting with best of my knowledge