Hall Tic	ket Number :											
Code: 1											R-11 / R-	13
Code.	II B.Tech. II S	iemest	er Su	əlaqı	eme	ntar	v Ex	amiı	natio	ons N	1av 2019	
		0111001		bab								
			(Co	mmo	n to	CE, M	√E &	. IT )				
Max. N	1arks: 70		٨٥٥	ver a	ov <b>fi</b> v		iocti	200			Time: 3 Ho	ours
	All (	Question			'				rks e	each)		
					*****		·			·		
1. a)	Find the mean	, median	and	mode	for th	ne foll	owin	g dist	ributi	on.		
		x 15	20	25	30	35	40	45	50	55		
	-	y 2	22	19	14	3	4	6	1	1		6M
b)	Find the rank of	correlatio	n coe	efficier	nt for	the fo	ollowi	ng da	ata			
		x 5	5	2	8	1	4	6	3	7		
		y 2	1	5	7	3	2	8	1	6		8M
2. a)	Box A contain	5 red an	d 3 w	hite m	arble	es and	d box	Всо	ntain	s 2 red	d and 6 white	
	marbles. If ma		awn f	from e	ach b	oox, v	vhat i	s the	prob	ability	that they are	
I- )	both of same of											7M
b)	State and prov	-			vinar	aroba	hility	dictri	hutio	0		7M
3. a)	A random varia		2			4	5	6	7	8	7	
		(X) K	2				5K	6K	7K	8K	-	
	Find K and $P($	$2 \le X \le 5$	).			I			J			7M
b)	If a random va	riable ha	s the	proba	bility	dens	ity fu	nctio	n			
	$f(x) = \begin{cases} k \left( x^2 - 0 \right) \\ 0, \end{cases}$	·1), −1≤	$x \leq 3$	find	kon		ĺ1_	r < -	5)			
	$\int (x) = \begin{cases} 0, \end{cases}$	elsew	here	mu	k an		$\overline{2}^{2}$	$\lambda \geq -\frac{1}{2}$	$\frac{1}{2}$			7M
							<b>ر</b> ب	( <b>N</b> /	1 3	DA		
4. a)	lf a Poisso	n distri	butior	n is	SUC	h tr	hat $P$	(X =	1)2	= P(X)	X = 3), find	
	$P({\rm X}{\geq}1)$ and	$P(X \le 3)$	3).									7M
b)	In a Normal Di	stributio	n, 7%	of the	e item	ns are	e und	er 35	and	89% a	are under 63.	
	Determine the	mean ar	nd vai	riance	of th	e dist	ributi	ion.				7M
Б	A population of	onciete	of five		hore	<b>~</b> ~	6 0	11	Cono	idar a	ll complee of	
<ol> <li>A population consists of five numbers 2, 3, 6, 8, 11. Consider all samples of size two which can be drawn without replacement from this population.</li> </ol>								•				
		ulation m				•						
	· · ·	ulation S										
		e	comp	lina di	otribu		of mo	ans				
	( )	n of the	•	•								4 4 4 4
6 0)	(d) Star	ndard dev	viatio	n of th	e sar	npling	g dist	ributi				14M
6. a)	( )	ndard dev mple of	viatio size	n of th 100 I	e sar nas la	nplinę a stai	g dist ndaro	ributi d dev	viation			14M 7M

- 7. a) An ambulance service claims that it takes on the average less than 10 minutes to reach its destination in emergency calls. A sample of 36 calls has a mean of 11 minutes and the variance of 16 minutes. Test the claim at 0.05 level of significance.
  - b) An average breaking strength of steel rods is specified to be 18.5 thousand pounds. To test this sample of 14 rods were tested. The mean and standard deviations obtained were 17.85 and 1.955 respectively. Is the result of experiment significant?
- 8. From the following data, find whether there is any significant liking in the habit of taking soft drinks among the categories of employees.

Employees										
Soft Drinks	Clerks	Teachers	Officers							
Pepsi	10	25	65							
Thumsup	15	30	65							
Fanta	50	60	30							
***										

14M

7M

7M

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Hall	Tick	et Number :											ſ			
Cod	Code: 1G145								13							
II B.Tech. II Semester Supplementary Examinations May 2019																
Object Oriented Programming Through JAVA																
( Common to CSE & IT )																
Max. Marks: 70 Time: 3 Hours																
Answer any <b>five</b> questions All Questions carry equal marks ( <b>14 Marks</b> each)																
**************************************																
1.	a)	What is Ob programming	•			par	adigr	n? I	Expla	in a	any	three	obj	ect ori	ented	7M
	b)	List out and e				eger	and F	- loati	ng po	oint d	lata t	/pes′	?			7M
-	,					•			•			•				
2.	a)	Define class example?	and	l ob	ject?	Ext	Diain	the	gen	eral	form	OT	a cla	ass wit	n an	8M
	b)	Briefly explain	n java	a's a	cces	s spe	ecifie	rs?								6M
_	,		-			-										0111
3.	a)	Differentiate														7M
	b)	How Interface	es ca	n be	exte	ndeo	d? Ex	plair	n with	ane	exam	ple?				7M
4.		Write a java p	orogra	am t	o cre	ate a	a thre	ad								
		i) By ext		•												
		ii) By im	pleme	entin	g Ru	nnat	ole in	terfa	ce.							14M
5.	a)	Explain Deleg	ation	eve	nt mc	del.										7M
	b)	Explain any tw	vo ev	ent c	lasse	es.										7M
6.		Write a Java	app	let p	rogra	am to	o dra	w lin	ies, i	ecta	ngles	s, squ	uares	, circles	s and	
		ovals.														14M
7.	a)	Explain MVC	archit	tectu	re.											7M
	b)	Explain JLabe	el and	l JBu	itton.											7M
8.		Write a Java	nroar	am t	to im	nlem	ent a	sim	ole c	ient/	serve	r cor	nmun	ication	usina	
0.		client and ser				picifi		5111					iiiiui		using	14M
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