	ŀ	Hall Ticket Number :											_			٦
	C	ode: 19A545T												R-1	9	
	C	II B.Tech. II Semes	ter S	upp	lem	ento	ary B	Exan	ninc	atior	ns Ju	ly/A	νυg	ust 202	2	
				•••				/ste				, .	U			
			Com	oute	er Sci	enc	e ar	nd Er	ngin	eerir	ng)					
		Max. Marks: 70	onch	wob	oosi			uarti	on fr	0.000	ach		15.	Time: 3		
	F	Answer any five full quest	ons l	by Ch	IOOSII	-	ne q *****		Shii	ome	ach	Unii	(SX	14 – 70 r	Marks J	
							1							Marks	СО	Blooms Level
1	a)	What is an Operating sy	stom				lain /	diffor	ont (Juora	tina	Svet	ome			
1.	,	Operations?									Ū			7M	CO1	L2
	b)	Why Operating System i architecture of an Operati					ce M	anag	er. E	xplai	n the	e lay	erec	1 7M	CO1	L2
•	、				OR		-				• .	•				
2.	a)	Why Scheduling is imported preemptive and non-preem								erent	late	betw	/eer	י 7M	CO1	L4
	b)	Is the Priority scheduling your answer with an exam	0	thm t	hat c	ould	resu	lt in S	Starv	ation	? If y	es ju	stify	/ 7M	CO1	L4
		,	•	l	UNIT	-11	-									
3.	a)	What is a thread? Illustra		diffe	rence	es be	twee	n sin	gle-tl	nread	led p	roce	sses			
	L)	and multi-threaded proces												8M	CO2	L2
	b)	Differentiate between the	thread	a and	i proc OR		,							6M	CO2	L2
4	a)	What is the Critical-Secti	on pr	oblen	-		s in	detai	l Pet	ersor	n's so	olutio	n to)		
	α,	the Critical-Section proble	•	001011	. 0	0000	0 111	aotai		01001	10 00	Jiano		, 7M	CO2	L2
	b)	Demonstrate that monitor be used to implement the						•				they	car	י 7M	CO2	L4
		•			JNIT-				•							
5.	a)	Under what circumstance the operating system whe	•	•				escri	be th	ie act	ions	take	n by		CO3	L4
	b)	What is the cause of thra	•	•				stem	dete	ct thr	ashin	a? (nce		003	L4
	~)	it detects thrashing, what										g			CO3	L3
					OR											
6.	a)	Describe how demand pag	•			•							?ר	7M	CO3	L4
	b)	Explain the second chance	e pag	· ·	JNIT-		algo	ritnm	with	an e	xamp	ie?		7M	CO3	L2
7.	a)	Discuss in detail different	file ac				?							7M	CO4	L4
	b)	Briefly explain single-leve	, two-	level	, and	Tree	-Stru	icture	d dir	ector	ies?			7M	CO4	L2
					OR											
8.	a)	What is File? List and	expla	in F	ile ir	npler	nenta	ation	met	hods	with	а	neat		CO4	
	b)	diagram? Elaborate on different Fre	o-Sna	ico m	anac	مسم	nt tor	hnia	2002					7M 7M	CO4 CO4	L2 L2
	5)		c opc					Pund						7 101	004	LZ
9.	a)	What is protection? Expla	in goa				es of	prote	ctior	ו?				7M	CO5	L1
	b)	Describe the access matr	•		•	•		-						7M	CO5	L2
					OR											
10.	,	How does the principle of le		-										7M	CO5	L3
	b)	Examine different methor operating system level?	as u	sed	to so	olve	the	probl	em	ot se	curit	y at	the	e 7M	CO5	L4
						*	* *								•	

	Hall Ticket Number :						
					R-1	9	
	(ester Supplementa Probability a Computer Science	nd Statistics	g)]
	Max. Marks: 70 Answer any five full ques	tions by choosing on	•		Time: 3 4 = 70 M		
		UNIT-I			Marks	CO	Blooms Level
1.	The following are the num work on 15 working days. (i) mean (ii) median.		•		14M	CO1	L1
2.	Ten people of various hei car at 25 yards distance. T Height (in feet): 5.1 No. of letters : 11	ghts as under were redhe number of letters co5.35.65.75.8	orrectly read is given 5.9 5.10 5.11 6				
	Is there any correlation be	UNIT–II			14M	CO1	L2
3.	A card is drawn from a probability of drawing (i)a r			What is the	14M	CO2	L2
4.	In a bolt factory, machines total of their output 6%, 3% from the product and is fo was manufactured by mac	6 and 2% are defective bund to be defective. V	bolts. A bolt is draw	n at random	14M	CO2	L3
5.	A die is thrown five time probability of getting at lea	• •	number is a succe	ss, find the	14M	CO3	L2
6.	X is a normal variate v probabilities that i) 26 < X		tandard deviation	5. Find the	14M	CO3	L3
7.	A random sample of 400 i of 18. Find the confidence	tems is found to have r		ard deviation	14M	CO4	L4
8.	In a big city, 325 men of information supports the smokers.				14M	CO4	L4
9.	Pumpkins were grown und of 11 and 9 pumpkins, sh 0.8 and 0.5 respectively. the hypothesis that the true	ow the sample standar Assuming that the weig	d deviations of their	r weights as	14M	CO4	L4
10.	In an investigation on t obtained	he machine performa	nce, the following No. of defectives	results are			
	Machine I Machine II	375 450	17 22				
	Tost whether there is any			- 0.05	1/11	CO_{4}	14

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L4

14M CO4

	C	ode: 19A546T	R-1	9	
	C	Il B.Tech. II Semester Supplementary Examinations July/Augu	ist 202	2	-
		Software Engineering	JJ1 202		
		(Computer Science and Engineering)			
			lime: 3 4 = 70 M		
			Marks	со	Blooms Level
		UNIT–I			Lever
1.	a)	Define Software. Explain about "Software Doesn't wear out", in your own			
		words.	7M	CO1	L1
	b)	List the different type of Myths in software engineering.	7M	CO1	L1
		OR			
2.	a)	Recognize the importance of incremental process model	7M	CO1	L2
	b)	Describe about PSP in-detail.	7M	CO1	L2
_	、				
	a)	Explain about QFD in eliciting Requirements	7M		L2
	b)	Identify the Questionaries for requirements validation	7M	CO2	L2
4	-)	OR	014	000	1.0
	a)	Sketch a Swimlane diagram for accessing camera surveillance	9M	CO2	L3
	b)	Describe the importance of requirements analysis	5M	CO2	L2
		UNIT–III			
5.		Demonstrate the Dimension model. Explain about Architectural and			
		Component level design elements.	14M	CO3	L3
_		OR			
3.	a)	List the basic design principles	8M		L1
	b)	Define abstraction and functional independence in design concepts	6M	CO3	L2
-	、			004	
7.	a)	Explain about boundary value analysis in Black-Box Testing	7M	CO4	L2
	b)	Describe path coverage in White-Box Testing	7M	CO4	L2
2		OR Discuss shout Statement sourcess. Branch sourcess and Multiple condition			
3.		Discuss about Statement coverage, Branch coverage and Multiple condition coverage.	14M	CO4	L2
				•••	
		UNIT-V			
Э.	a)	Identify the Reliability Metrics of Software Products	7M	CO5	L2
	b)	Locate the different quality factors in software	7M	CO5	L2
	,	OR		-	
Э.		Discuss about software maintenance process models in detail	14M	CO5	L2

		R-1	9	
C	ode: 19A541T II B.Tech. II Semester Supplementary Examinations July/Au		2	4
	Artificial Intelligence	9031 202	Z	
	(Computer Science and Engineering)			
	Max. Marks: 70	Time: 3		
ŀ	Answer any five full questions by choosing one question from each unit (5x14 = 70 N	Aarks)	
		Marks	со	Blooms Level
	UNIT–I			Lever
. a)	Draw a state space representation of Towers of Hanoi problem	7M	CO1	L6
b)	Discuss the history of Al	7M	CO1	L2
,	OR			
. a)	What is Intelligent Agent?	4M	CO1	L1
b)	Explain in detail about the types of Agent Environments.	10M	CO1	L2
	UNIT–II			
	Describe the following in detail: -			
	a) Hill climbing b) Best first search	14M	CO2	L2
	OR			
•	What is map coloring? Explain with an example	14M	CO2	L2
	UNIT–III			
. a)	How categories are useful in knowledge representation	7M	CO3	L1
b)	Differentiate between forward chaining and backward chaining.	7M	CO3	L2
	OR			
	Give resolution proof for example problem statement :			
	(a) "West is a criminal"			
	(b) Curiosity killed the cat	14M	CO3	L3
	UNIT–IV			
. a)	Describe in detail about planning?	7M	CO4	L2
b)	What are the components of a planning system?	7M	CO4	L1
,	OR			
	Briefly discuss about Conditional Planning.	14M	CO4	L2
	UNIT-V			
. a)	Explain the connection between \forall and \exists	7M	CO5	L2
b)	What are quantifiers? Explain.	7M 7M	CO5	L2 L1
0)		7 111	000	LI
	What is Belief Networks, explain Simple Inference in Belief Networks	14M	CO5	L1
•		1411	005	L I

	ŀ	Hall Ticket Number :												-
	C	ode: 19A542T						<u></u>		<u></u>		R-1	9	
	C	II B.Tech. II Semeste				•					ly/Au	gust 202	2	_
			ign ar moute			-		-						
(Computer Science and Engineering) Max. Marks: 70 Time: 3 Hours Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)														
			[1						Marks	СО	Blooms Level
1	2)	Evolution properties of an alg				 						714	CO1	L2
١.	a) b)	Explain properties of an alg Write the algorithm for mat	•			•		tha t	ime	comr	levity (COT	LZ
	0)	matrix multiplication		ipiloc		anu	mina		inte	comp			CO1	L2
				OR										
2.	a)	What are Disjoint set opera	tions. E	xplai	n							7M	CO1	L2
	b)	Explain the basic asymptoti		ency UNIT		es						7M	CO1	L2
3.	a)	Explain the control abstract	tion for a	divide	e and	con	quer	metl	nod			7M	CO2	L2
	b)	Write about strassens matri	ix multip	olicat	ion ir	n deta	ail					7M	CO2	L2
				OR										
4.		Consider the following (p1,p2,p3)=(25,24,15), (w1, I. Maximum profit II. Minimum weight				•	•							
		III Maximum profit per uni]						14M	CO2	L3
Б	2)	What are advantages of rel		JNIT-			blom					714	CO^{2}	1.4
5.	a) b)	What are advantages of rel List the applications of All p	•		-	•							CO3 CO3	L4 L1
	5)			OR	2								000	E.
6.	a)	How the matrix chain m	•		•		can	be	solv	ed b	y usin	0	CO3	14
	b)	dynamic programming with What are the advantages o			•		on n	roble	m			7M 7M	CO3	L1 L4
	0)	what are the advantages o		JNIT-		pera	on p		7111			7 101	005	L4
7.		Explain in detail back tracki	• •			•	eens	pro	blem	1		10M	CO4	L2
	b)	What are the advantages o	of n quee	ens OR		em						4M	CO4	L4
8.	a)	Explain sum of subsets pro	blem									7M	CO4	L2
	b)	What are the principles of b	branch a	and b	ound	lmet	hod					7M	CO4	L4
			l	JNIT	-V									
9.	a)	Explain in detail non determ		•		5						7M	CO5	L2
	b)	Explain in detail determinis	stic algo									7M	CO5	L2
	,			OR									<u> </u>	
10.		What is the methodology of				•					. h		CO5	L4
	b)	Let X be a problem that complete. Justify.	beiongs	5 to		:lass **	NP.	IN	en X	may	DEN		CO5	L5

	<u> </u>	ode: 19A544T	R-1	9	
	C	Il B.Tech. II Semester Supplementary Examinations July/Aug	ist 202	2	
		Object Oriented Programming using JAVA	001 202	~	
		(Computer Science and Engineering)			
			Time: 3		
	P	Answer any five full questions by choosing one question from each unit (5x	14 = 70 N	Aarks)	
			Marks	со	Blooms
		UNIT–I			Level
1.	a)	Explain the benefits and applications of OOPs	7M	CO1	L2
	b)	Define Constructor. Explain parameterized constructor.	7M	CO1	L2
	,	OR		001	
2.		How many types of access specifiers are supported by java? Explain each with suitable example program.		CO1	L1
		UNIT–II			
3.		Define package. Explain creating, importing, accessing a package with an example.		CO2	L3
		OR			
4.		What is Inheritance? Discuss different forms of inheritance. Write programs for any two forms of inheritance.		CO2	L3
		UNIT–III			
5.		Define an Exception. Explain the exception hierarchy and how to throw, catch and handle an exception with an example program OR		CO3	L1,L2
6.	a)	Explain the ways of creating a thread with an example.	714	CO3	L2
0.	b)	Write a program that creates 3 threads by extending Thread class. First thread displays "Good Morning" every 1 sec, the second thread displays "Hello" every		003	LZ
		2 seconds and the third displays "Welcome" every 3 seconds	7M	CO3	L3
		UNIT-IV			
7.	a)	Explain method references in java.	7M	CO4	L2
	b)	How to create Generic Constructors in java? Explain with an example	7M	CO4	 L2
		OR			
8.	a)	Define Lambda expression. Explain about Blocked Lambda expressions.	7M	CO4	L1
	b)	What are Generics? Explain about bounded types in generics with an example program.			L1,L2
		UNIT-V			
9.	a)	What are the main differences between array and collection?	7M	CO5	L3
5.	b)	Explain StringTokenizer with a java program.	7M	CO5	L2,L3
	,	OR	7 111	000	22,20
10.	a)	Discuss about Scanner class in java with example program	6M	CO5	L2
	b)	Explain various interfaces used in Collection framework?	8M	CO5	L2
		***	0.01		