	~-		R-17	
	C	bde: 7G151	2021	
		III B.Tech. I Semester Supplementary Examinations August	2021	
		Advanced Java Programming (Computer Science and Engineering)		
	٨٨		Time: 3 Hou	irc
		nswer any five full questions by choosing one question from each unit (5x1		
		******		,
			Marks CO) Blo Le
		UNIT–I		LU
1.	a)		Ite	
••	u)	a JavaFX Program?	8M	
	b)	Write Short notes on JavaFX Packages.	6M	
	0)	OR	OW	
C			014	
2.	a)	Explain JavaFX Application Skeleton with an example program?	8M	
	b)	List and define the three components of JavaFX Application	6M	
_		UNIT-II		
3.	a)	Differentiate between List and ComboBox	6M	
	b)	Explain any four important packages of JavaFX	8M	
		OR		
4.	a)	Discuss briefly about JavaFX controls i) Tree View ii) Image View		
		iii) CheckBox iv) Radio Button	8M	
	b)	Write a program to add Tooltip and Disabling a control in JavaFX.	6M	
		UNIT–III		
5.	a)	What is JDBC? What is the use of JDBC? Explain with suitable examples.	7M	
	b)	Write a Java Program to Insert, Delete, Update and relieve data from databas	se	
		using JDBC connectivity	7M	
		OR		
6.	a)	Explain about Establishing the Database Connection.	7M	
	b)	Explain how to handling Multiple Results from a Statement Interface.	7M	
	~)			
7.	a)	Explain the deployment of servlet step by step in tomcat server.	7M	
	b)	List and explain core classes and Interfaces in javax.servlet package	7M	
	D)		7 101	
	,	OR	014	
		Write short notes on HTTP request and HTTP response objects	6M	
8.	a)	Elaborate the role of east included for easting treating with an example	8M	
	a) b)	Elaborate the role of cookies used for session tracking with an example.	OIVI	
	,	UNIT-V	OW	
	,		6M	
3.	b)	UNIT-V	6M ble	
3.	b) a)	UNIT-V Explain error handling methods in JSP.	6M	
3.	b) a)	UNIT-V Explain error handling methods in JSP. What is a tag in JSP? Explain different types of JSP tags by taking suitab	6M ble	
8. 9.	b) a)	UNIT-V Explain error handling methods in JSP. What is a tag in JSP? Explain different types of JSP tags by taking suitable example.	6M ble 8M va	
8. 9.	b) a) b)	UNIT-V Explain error handling methods in JSP. What is a tag in JSP? Explain different types of JSP tags by taking suitable example. OR	6M ble 8M	

Hall Ticket Number :	_	17	
Code: 7G152	K-	17	
III B.Tech. I Semester Supplementary Examinations Augu	st 2021		
Compiler Design			
(Computer Science and Engineering)	T '	0.11	
Max. Marks: 70 Answer any five full questions by choosing one question from each unit (5	Time: 14 = 70		
	XII 70	Mark	5
	Marks	СО	Bloor Leve
UNIT-I			
. a) Explain about different phases of a compiler.	10M	CO1	I
b) What is interpreter? Write Advantages and Disadvantages of Interpreter.	4M	CO1	I
OR			
2. Write the rules to compute FIRST and FOLLOW. Also find the FIRST and	ł		
FOLLOW for the non-terminals of the following grammar after eliminating	9		
the left recursion.			
$E \rightarrow E + T T$ T \rightarrow T * F F			
$F \rightarrow (E) \mid id$	14M	CO2	
UNIT-II			
a) Construct the LALR parsing table for the grammar.			
$S^1 \rightarrow S$			
$S \rightarrow CC$	714		
$C \rightarrow cC \mid d$	7M	CO3	
b) Discuss about the parser Generator Yacc.	7M	CO3	
OR			
Construct the LR(0) items and SLR parse table for the below grammar			
$E \rightarrow E + T T$ T \rightarrow T * F F			
$F \rightarrow (E) \mid id$	14M	CO3	
UNIT–III			
5. a) Construct an annotate parse tree for 3*5+4n	7M	CO3	
b) Explain about S-Attribute definitions and L-attributed definitions.	7M	CO3	
OR			
b. a) Write ML program for the Length of a list. How length function can be	9		
used as a polymorphic function.	7M	CO3	
b) Explain about widening and narrowing type conversions between primitive			
conversions in java.	7M	CO4	
 Describe in detail about the storage allocation strategies. 	14M	CO4	
OR			
B. a) List the common three-address instruction forms.	7M	CO4	
 b) Write the Quadruples and indirect triples for the following expression. a = b * - c + b * - c 	7M	CO4	
	,	004	
 a) Discuss about various principal sources of optimization. 	7M	CO5	
b) What is basic block? How can you transform a basic block into a DAG?	7M	CO5	
OR		000	
). a) Explain about various steps in code-generation Algorithm.	7M	CO5	
 b) Explain about Register allocation by Graph coloring in register allocation 		005	
and assignment.	7M	CO5	

	Ha	all Ticket Number :			
			R-17	,	
		Je: 7G153 III B.Tech. I Semester Supplementary Examinations August 2	021		
		Computer Networks	•		
		(Computer Science and Engineering)			
	Ma	x. Marks: 70 Answer all five units by choosing one question from each unit (5 x 14 = 70 *********	me: 3 Marks		
			Marks	со	Blooms Level
		UNIT–I			
1.	a)	Make a comparison between the TCP/IP and OSI Models.	7M	CO1	L5
	b)	Explain the spread spectrum and ultra-wideband communications	7M	CO1	L4
0		OR	714		10
2.	a) b)	List and explain the four levels of addressing employed in TCP/IP protocols.	7M 7M	CO1	L3
	b)	Compare and contrast the fiber optics and copper wire.	7M	CO1	L4
3.	a)	UNIT-II What is the need for framing? Explain different farming methods in Datalink			
5.	a)	Layer.	7M	CO2	L3
	b)	Compare Go-Back-N and Selective Repeat sliding window protocols in terms of		001	-
	- /	Storage and Bandwidth requirements to deal with the transmission errors	7M	CO2	L5
		OR			
4.	a)	Consider the delay of pure ALOHA versus slotted ALOHA at low load. Which			
		one is less? Explain your answer.	7M	CO2	L6
	b)	Define Error Detection and Correction. List and explain the types of errors.	7M	CO2	L3
_	-)				
5.	a)	Compare and contrast the datagram and virtual circuit networks	7M	CO3	L5
	D)	Explain the Link state routing protocol. OR	7 IVI	CO3	L3
6.	a)	How do you find the distance vector routing algorithm? Discuss.	7M	CO3	L1
0.	b)	Draw the format of IPv4 protocol header and explain each field.	7M	CO3	L1
				000	
7.	a)	The following is a dump of a UDP header in hexadecimal format.			
		CB84000D001C001C, Is the packet directed from a client to a server or vice			
		versa?	4M	CO4	L5
	b)	What are the differences between TCP and UDP? Explain the applications of UDP.	10M	CO4	L2
0		OR	714		1.4
8.	a) b)	Explain the elements of Transport protocols.	7 IVI	CO4	L4
	b)	DNS uses UDP instead of TCP. If a DNS packet is lost, there is no automatic recovery. Does this cause a problem, and if so, how is it solved.	7M	CO4	L5
				001	
9.	a)	Explain the e-mail architecture and services.	7M	CO5	L3
	b)	Discuss the Domain Resource Records in detail.	7M	CO5	L2
	,	OR			
10.		Explain the following:			
		a) User Agent,			
		b) Message Formats,c) Message Transfer	14M	CO5	L4

		Hall Ticket Number :	R-17	
	C	ode: 7G356	+ 2021	
		III B.Tech. I Semester Supplementary Examinations Augus Microprocessors & Interfacing	1 2021	
		(Computer Science and Engineering)		
	М	ax. Marks: 70	Time: 3 H	lours
		Answer all five units by choosing one question from each unit (5 x 14 =		
		*****		Bloom
			Marks CO	Leve
		UNIT–I		
1.	a)	Explain the instructions ADD, AND, SHR, MOVS with examples	8M	K
	b)	Explain MACRO and MACRO within MACRO with example	6M	K
		OR		
2.	a)	i) Explain the pipe lining concept in 8086	2M	
		ii) Code Segment Physical Address is 78965H. Find out CS and IP value	4M	K
	b)	Write a procedure to add two numbers using 8086 assembly language	8M	K
		UNIT–II		
3.	a)	Compare and Contrast Memory Mapped I/O and I/O mapped I/O	7M	K
	b)	Interface two 4K X 4 EPROMs and two 4K X 4 RAM chips with 8086		
		microprocessor. Select suitable map	7M	K
		OR		
4.	a)	Compare and Contrast I/O mapped I/O and Memory mapped I/O	7M	K
	b)	Explain A/D and D/A Converters	7M	K
		UNIT–III		
5.		Explain in detail about the Architecture of 8257 with neat diagram.	14M	K
		OR		
6.	a)	Explain The Cascading of Interrupt Controllers	8M	K
	b)	Compare and Contrast Programmed I/O and Interrupted I/O	6M	K
		UNIT–IV		
7.	a)	Explain RS-232C Serial Data Standard and 20ma Current loop	7M	K
	b)	Compare and Contrast Asynchronous and synchronous data transfer methods	7M	K
		OR		
8.		Analyze 8251 USART architecture and interfacing with 8086	14M	K
		UNIT–V		
9.	a)	What are the differences between 8086 and 80286	4M	K
	b)	Explain segmentation in 80386	10M	K
		OR		
Э.	a)	What are salient features of Pentium pro processor	6M	K
	b)	Explain real mode of 80386	8M	K

	H	all Ticket Number :														
	С	ode: 7G154											-	R-	17	
	III B.Tech. I Semester Supplementary Examinations August 2021															
					-			ogra		-						
		ax. Marks: 70	(C	om	pute	r Sci	ienc	e ar	nd Er	ngin	eerir	ng)		Time:	2110	. Irc
		nswer any five full qu	estio	ns b	y ch	oosir	-	ne qı	Jestic	on fro	om e	each	unit (
								_						Marks	со	Blooms Level
					L						_					
1.	a)	List out various opera		•				•	rece	denc	e of o	opera	ators.	7M	CO1	L2
	b)	Describe important fe	ature	es of	pytho			•						7M	CO1	L3
~	、						-		•,							
2.	a)	Illustrate all the iterati				-						ples		8M	CO1	L4
	b)	Write a python progra	am to	r imp				nest	ed-to	r Ioo	р.			6M	CO1	L3
2										·++:			m a tabin	<i>a</i>		
3.	a)	How to compare two functions in Python.	give	en st	nngs	£ ΕΧ	piain	vand	bus c	string	pan	em r	natchin	9 9M	CO2	L3
	b)	Define a dictionary. H	low to	o apr	bend	elem	ents	in to	the d	ictior	narv?)		5M	CO2	 L1
	- /	, , , , , , , , , , , , , , , , , , ,				OR					J			_	001	
4.	a)	Discuss about the Lis	t Slic	ing a	and Li	ist M	utabi	lity w	ith ex	amp	les.			8M	CO2	L2
	b)	Differentiate between		•				•		•				6M	CO2	L3
					l	JNIT	-111									
5.	a)	Demonstrate the impl	lemei	ntatio	on of	inher	ritanc	e in I	Pytho	n wit	th exa	ample	e.	7M	CO3	L4
	b)	Implement compile tir	ne po	olym	orphis	sm u	sing	pythc	n scr	ipt.				7M	CO3	L6
						OR	2									
6.	a)	How to handle an ex	cepti	ion u	ising	try e	xcep	t blo	ck in	Pyth	ion?	Illust	rate wit			
		suitable program.	_							. .				7M	CO3	L1
	b)	b) Write a Python program for implementation of Abstract Class. UNIT–IV									7M	CO3	L6			
7.	a)	What are the different	t of fi	les ir	n pyth	ion?	Give	exan	nples					6M	CO4	L1
	b)	Develop a python scr	ipt to	copy	y the	conte	ent o	f one	file to	o and	other	file		8M	CO4	L6
						OR	2									
8.	a)	Illustrate the benefits			•	•	•••							7M	CO4	L4
	b)	Develop a python scr	ipt to	reve				t of g	iven	file.				7M	CO4	L6
-				_		JNIT										
9.	a)	What are the advanta	•				•							6M	CO5	L1
	b)	Demonstrate Thread create a new thread i		-	e with	n a ne	eat si	ketch	. vvri	ie a I	Pytho	on pro	ogram t	o 8M	CO5	L4
			iii yt			OR								OW	005	L7
10.	a)	Explain the role of wa	nit() s	and n	notifv/			ls in c	omm	unic	ation	of m	ultiple			
	ч)	threads.				,						U 111	Supro	8M	CO5	L4
	b)	Write short note on D	aemo	on th	reads	s in p	ytho	n.						6M	CO5	L2
							**	***								

F	lall 7	Ficket Number :			
		: 7G155	R- 1	7	
	oae	III B.Tech. I Semester Supplementary Examinations August	2021		
		Software Engineering	-		
		(Computer Science and Engineering)			
Μ		Marks: 70 Inswer all five units by choosing one question from each unit (5 x 14 =	Time: (70 Mark		rs
			Marks	со	Blooms Level
		UNIT–I			
1.		Describe the evolution of software. Give the comparison of software and			1.4
		software system product. OR	14M	CO1	L1
2.	a)	Explain applicability and advantages of software processes.	10M	CO1	L2
2.	b)	Explain process classification.	4M	CO1	L2
	~)			001	
		UNIT–II			
3.	a)	Explain the importance of software specification of requirements.	10M	CO2	L1
	b)	What are the non-functional requirements of software	4M	CO2	L1
		OR	_		
4.		Describe various prototyping techniques and object oriented analysis and modeling principles.	l 14M	CO2	L1
		modeling principies.	14101	002	L 1
		UNIT–III			
5.		What are the design principles of a good software design? Explain.	14M	CO3	L2
		OR			
6.	a)	Write short note on structured design methodologies.	10M	CO3	L2
	b)	Explain the design steps in transaction mapping.	4M	CO3	L2
7.		UNIT–IV Explain black box testing methods and its advantages and disadvantages.	14M	004	L2
7.		OR	14101	CO4	LZ
8.		Discuss how the testing models may be used together to test a program	1		
		schedule.	14M	CO4	L2
_		UNIT-V			
9.	a)	Explain why the intangibility of software systems poses special problems for software project management.	; 10M	CO5	L2
	b)	Briefly explain project planning activity.	4M	CO5	L2
	~)	OR		000	
10.	a)	Write about capability maturity model and how it is used for software)		
		quality.	10M	CO5	L1
	b)	Write a program be correct and still not exhibit good quality? Explain	4M	CO5	L1
