Hall ⁻	Ticke	et Number :]		–		1
Code	ə: 4I	93127	<u> </u>				1	1	I	1	1				R-1	4
М.	Tec	h. II Semest	ter Reg	gulai	r & S	upp	olen	nent	tary	Exc	mir	nat	ions	s Ju	ne 20)17
					lou											
			(Con	npute	er Sc	ienc	e ar	nd Er	ngin	eerir	ng)			- .		
-		arks: 60 all five units I	hy cho	osinc	i one	e ane	estio	n frc	om e	ach	uni [.]	+ (.	5 x 1		ne:3+ 60 Mc	
7 (115)			by cho	031119		•	****		7			. (.	0 / 1	L	00 1110	
	、	0				Ŀ	UNI				,					
1.	a)	Compare an virtualization			arious	s too	ols ar	nd m	echa	anism	ns to	rır	npler	men	iting th	e 6M
	b)	What is virtu			nat ar	e the	obie	ective	es of	virtu	alizat	tior	ו?			6M
	- /						OF					-				-
2.	a)	Explain any	six bene	fits o	f Soft	tware	as S	Servi	ce in	Clou	nd co	omp	outing	g?		6M
	b)	Discuss Inte	l virtuali:	zatior	tech	nolo	gy in	brief								6M
							UNI	[—]]								
3.	a)	What are th				•		ed f	or i	mple	ment	tatio	on o	of h	ardwar	
		virtualization	•													8M
	b)	Write a short	t note or	1 OS	virtua	alızati										4M
		Define Dress				A	OR				. 01			<i>r</i>	- I' ('	_
4.		Define Proce Discuss the b				•••			rtuali	zatio	n, St	ora	ge v	rintua	alizatior	ו. 12M
							UNIT		7							
5.	a)	How virtualiz	zation he	elps to	o imp	rove	the p	perfo	rmar	nce o	f clou	ud	comp	outir	ng?	6M
	b)	Where and w	why virtu	alizat	ion c	an b	e use	ed.								6M
_							OF	R								
6.	a)	Discuss stor	0							0						6M
	b)	How can ava	allability	be in	prov		•		zatic	on?						6M
7.	a)	What is clou	d? Give	the h	enefi		UNIT d lim			f cloi	лd					6M
7.	b)	Discuss laas														OW
	2)		Archited		0 1110			onon								
		ii) Chara	acteristic	s												
		iii) Adva	ntages a	and di	sadv	antag	ges									6M
			_	_			OF				_					
8.	a)	Discuss the		•	•						•	ng.				6M
	b)	Discuss Paa			ce m	odel	with	follov	wing	point	ts:					
		,	S Archite s of Paa													
		iii) Issue														6M
		,		-				Г V								
9.	a)	Write a short	t note or	n Goo	gle A	L			h res	spect	to fo	ollo	wing	poii	nts:	
		i) Differ	ent feat	ures o	of Go	ogle	Арр	Engi	ne							
		ii) Run⊺	Time En	vironi	nent	in Go	oogle	e App	o Eng	gine						8M
	b)	Explain the b	basic se	curity	featu			acle	IBIE	E clo	ud.					4M
							DR									
10.	a)	What are the			•											6M
	b)	Write a short	t note or	ו IBM	offer	•		ds cl	oud	comp	outing	g.				6M
						*:	* *									

Hall 7	Ficke	et Number :	
Code	ə: 4F	P3124 R-14	
M.	Tec	h. II Semester Regular & Supplementary Examinations June 201	7
		Distributed Operating Systems	
May	Mc	(Computer Science and Engineering) arks: 60 Time: 3 Hc	N Irc
		all five units by choosing one question from each unit (5 x 12 = 60 Mark ********	
		UNIT–I	
1.	a)	What are the goals of distributed operating system? Explain	6M
	b)	What are design issues of distributed operating system? Explain	6M
		OR	
2.	a)	Discuss the client-server model with neat diagrams	6M
	b)	Explain the asynchronous transfer mode of networks	6M
		UNIT–II	
3.	a)	What is clock synchronization? Explain different clocks	6M
	b)	What is Mutual exclusion? Explain token ring algorithm	6M
		OR	
4.		What are different system models? Explain clearly	12M
		UNIT-III	
5.		Identify trends in distributed system and explain clearly	12M
		OR	
6.	a)	Why do some distributed systems use two level naming? Explain	6M
	b)	What is the difference between a file service using the upload/download	
		model and one using the remote access model?	6M
		UNIT–IV	
7.	a)	What is shared memory? Explain comparison of shared memory systems	6M
	b)	Explain NUMA multi processors in detail	6M
		OR	
8.		Discuss Bus-based and Ring-based multi processors in detail	12M
		UNIT-V	
9.		Explain page-based distributed shared memory	12M
		OR	
10.	a)	Define shared variable in distributed shared memory	6M
10.			
10.	b)	Elaborate object-based distributed shared memory ****	6M

Hall	Ticke	et Number :	
Code	∋: 4F	23121	R-14
		h. II Semester Regular & Supplementary Examinations .	 June 2017
		Managing Big Data	
		(Computer Science and Engineering)	
		arks: 60 all five units by choosing one question from each unit (5 x 12 *********	ime: 3 Hours = 60 Marks)
		UNIT–I	
1.	a)	What is big data differentiate with database?	6M
	b)	Give the industry needs of bigdata.	6M
		OR	
2.	a)	Write a short note on hadoop architecture	6M
	b)	Why bigdata is needed for business analytics?	6M
		UNIT–II	
3.	a)	Differentiate SQL and No SQL databases with examples	6M
	b)	List different No SQL databases.	6M
		OR	
4.		Explain master-slave and peer-peer replication	12M
		UNIT–III	
5.		Write a short note on hadoop i/o	12M
		OR	
6.	a)	Write a short note on data serialization step in hadoop	6M
	b)	How data is analyzed with hadoop?	6M
		UNIT–IV	
7.	a)	Describe in brief about input and output formats	6M
	b)	Explain failures in classic Mapreduce and YARN	6M
	,	OR	
8.	a)	What are the failures in YARN and classic Mapreduce	6M
	b)	List MapReduce types	6M
		UNIT–V	
9.	a)	Explain pig data model implementation process	6M
	b)	List HiveQL data types and file formats	6M
		OR	
10.	a)	Explain casendra clients and its data model with related examples	6M
	b)	Briefly explain Hbase data model and clients	6M

Hall ⁻	Ticke	et Number :]
Code	: 4P3	3128											.1	R-14	
Ν	∕I.Te	ch. II Semes	ster I	Reg	ular	& Si	Jppl	eme	entc	ary E	xam	inat	ion	s June 2017	
				_			e Co								
Max.	Mar	kc. 40	((Com	pute	r Scie	ence	e and	l Eng	ginee	ering)		Time: 3 Hou	irc
			ov ch	100s	ina (one	aue	stior	n froi	me	ach	unit	(5)	x 12 = 60 Marks	
-			/ -		0		*****	****		7		-			
4		Define mehi			4: m m O						f				
1.	a) b)	Define mobi		•	•	•							le co	omputing.	6M
	b)	Write and ex	cpiali	1 1101	/ei ap	plica		OF		e coi	nput	ing			6M
2.	a)	Discuss ab	out	vario	פוור	VHE	an	_		fron	ienci	60	thoi	r transmission	
۷.	u)	properties, a								nequ		03,	uici		5M
	b)			-				-		and e	encry	ption	in	GSM? How is	714
		system secu	urity n	nain	taine	d?					-				7M
								JNIT]					
3.	a)	•		-	mec	lium	acce	ss co	ontro	I (MA	.C) a	nd ex	cplai	in the functional	6M
	b)	operation of			by t	unno	Ilina	8 0		- -	ion?	Evn	lain	about IP-in-IP	6M
	D)	encapsulatio		ean	byt	unne	iiiiy	αε	ιταμ	Sula	.1011 :	∟хр	ann		6M
								OF							•
4.	a)	Define MACA and explain how can you avoid collision from hidden and													
		exposed terr	minal	ls?				-							6M
	b)	Briefly expla	in go	als,	assu	mpti	ons a	and r	equi	reme	nts c	of mo	bile	IP	6M
_	,							JNIT							
5.	a)	What are t networks? E								-			al	FCP to mobile	6M
	b)	Explain abo	•								s proi	JIEITI			6M
	0)	Explain abov			100 11	ouru	ing a	OF							0101
6.	a)	Explain the	worki	na p	rinci	oles	of tra			orier	ted ⁻	ГСР			6M
	b)	Briefly expla		• ·											6M
	,	<i>y</i> 1				0		JNIT							•
7.	a)	Write short r	notes	ons	selec	tive t	unin	g (in	dexir	ng) te	chni	ques			
															6M
	b)	Draw the str	uctur	e of	a M/	ANE1	r and			he pr	oper	ties c	of a	MANET.	6M
_								OF	2						
8.	a)	Briefly expla	•												6M
	b)	Explain abo	ut dyı	nam	IC SO	urce		• ·		ols					6M
9.	a)	Discuss brie	flv th	<u>م ا اد</u>	or ec	anar		NIT-		 1					6M
э.	a) b)	What do you	•								prot	ററി	star	k	6M
	5)				, 100		- ۸۲	OF			Pior	5001	Juc	~~~	
10.	a)	Discuss in d	etail	wire	less	sessi	ion n								6M
	с, b)	Briefly discu					P	2.00							6M
	- /	,					**	*							2

Hall ⁻	Ticke	et Number :													1
Code	e: 4I	93122		I		<u></u>				<u> </u>		<u> </u>	<u>_</u>	R-1	4
М.	Tec	h. II Semes	ter l	Reg	ular	· & S	upp	olen	nen	tary	Exc	amir	nations	June 20	217
			Ope		-							-	S		
Мах	. Mc	arks: 60	(C	om	pute	er SC	ienc	e ai	nd E	ngin	eerii	ng)		Time: 3 H	Hours
Ansv	ver	all five units	by c	hoc	osing	one	e qu	estic	on fro	om e	each	n uni	t (5 x 12	$2 = 60 M_{\odot}$	arks)
							****		Г—I						
1.	a)	Develop a J	IDBC	; pro	gram	to re	etrie			om th	ne Da	ata B	ase. And	l using th	e
		steps involv					-	_							8M
	b)	Difference b	etwe	en S	Stater	nent	and	•		Stati	ment				4M
2.			0000	tion	Mon		ont	OF		hla n	roard				8M
۷.	a) b)	Discuss Tra Elaborate th				•				•	•	ai i i ?			4M
	0)			Tona			puut		11001						
								UNI	T—II						
3.	a)	Describe the													6M
	b)	Differentiate	e betv	veen	app	let ar	nd se	ervlet OF							6M
4.	a)	List out var	ioue	type	e of	Soc	sion	-		Too	hnia	0002	Develor	a convil	ot
4.	a)	program usi		•••			51011	mac	, Kii iy	160	mq	ues :	Develop		8M
	b)	Compare th	e adv	vanta	ages	and	disad	dvant	tages	s of d	oGe	t () a	nd doPos	st ()	4M
5.	\sim	List out the	impo	rtant		onte				truct	ina l		Paga		6M
5.	a) b)	Write JSP c	•								•		•	Redirect	
	0)	method of re				5010			.0 011	ouno	pug	10 40	ing oona	rtounoot	6M
								OF	R						
6.	a)	Elaborate the	e pro	cess	invo	ved i	n JS	P pa	ge tra	ansla	tion a	and p	rocessing) phases	8M
	b)	Identify the	meth	ods	invol	ved i	n JS	P Life	e Cy	cle					4M
									- 11/	_					
7.		Explain the s	steps	invo	lved	to de	velor	UNI a st		applic	atior	n with	suitable	example	12M
							1	OF							
8.	a)	Define the N	Лode	l? Ex	cplair	n Moo	del L	ayer	Brea	akdov	vn				6M
	b)	Elaborate th	ne Lif	e Cy	cle n	netho	ods o	f Coi	ntroll	er La	yer				6M
								UNI	Г–V						
9.		How to Inclu	de P	recor	nfigur	ed V	alida			es in	struc	cts ap	oplication	? Explain	12M
								OF	र						
10.		What is Tile	? Illu	strat	e the	Tile			ork v	with s	suital	ole st	teps?		12M
							*	**							

Hall T	Ticke	et Number :	
Code	: : 4F	P3123 R-14	
M.1	ſec	h. II Semester Regular & Supplementary Examinations June 2013 Software Architecture and Design Patterns (Computer Science and Engineering)	7
	-	Time: 3 Ho all five units by choosing one question from each unit (5 x 12 = 60 Mark ********	
		UNIT–I	
1.	a)	What is design pattern? Explain how design patterns solve design problems	6M
	b)	Explain the Procedure for selecting and using a design pattern	6M
		OR	
2		Explain the following	
		a) Abstract parent class	6M
		b) Accessor Methods	6M
0	、		
3.	a)	Describe motivation for flyweight pattern.	6M
	b)	Explain the singleton patterns with its applicability and sample code	6M
_		OR	
4.	a)	Describe the motivation and structure of Abstract Factory design pattern.	6M
	b)	Explain sample code of builder design pattern.	6M
-	-)	UNIT-III	
5.	a)	Explain the advantages and liabilities of decorator pattern	6M
	b)	Draw and explain structure of proxy	6M
•	、	OR	
6.	a)	State the implementation issues of chain of responsibility.	6M
	b)	Write short note on Aggregate Enforcer.	6M
7		UNIT-IV	сM
7.	a) L)	What is the motivation for command design pattern? Explain. Where do you apply the template method? Explain in detail along with structure	6M
	b)	and participants	6M
		OR	0.11
8.	a)	Give the structure & participants of Momento design pattern.	6M
0.	⊆) b)	Explain the role of Behavioral patterns in Design pattern.	6M
	2)		onn
9.		Discuss about Concurrency Patterns.	12M
		OR	
10.	a)	Draw and explain a structure of Read – Write lock design pattern.	6M
	b)	Describe the Critical Section.	6M
	,	***	