	На	II Ticket Number :														
C	:od	e : 19DF4AT]			J	R	-19	
		M.C.A.	IV S	iem	este	r Re	gulo	ar Ex	am	inat	ions	: July	/ 202	1		
							_)ata								
		. Marks: 60 ver any five full que	estior	ns by	cho	osing	-	-	estio	n fro	m eo	ach ı	unit (5		: 3 Ho 0 Marl	
							****	****						Marks	со	Blooms
						UNI	T–I									
1.	a)	State the need of B	ig Da	ita. D	escri	be th	e ch	aract	eristio	cs of	Big [Data.		7M	CO1	L1
	b)	List out the drivers f	or Bi	g Da	ta.									5M	CO1	L1
						OR										
2.		Identify and explain	in de	etail a	about	vario	ous E	Big Da	ata A	nalyti	cs a	pplica	ations.	12M	CO1	L2
						UNI										
3.	a)	Justify the need and	•	•				-	Ũ					6M	CO2	L3
	b)	Explain the scope o	f ope	en-so	urce		•	y for	Big [Data /	Anal	ytics?)	6M	CO2	L2
4.		Describe Inter- and	Tran	s-Fir	ewall	OR Ana		in de	etail.					12M	CO2	L2
5.	a)	Discuss the Holistic		/ of a			[_]]]							6M	CO3	L3
5.	b)	Elaborate on Best p			•		ana	lytics						6M	CO3	L3
	0)		, aou			OR		ily tioc						0101	000	LU
6.		Analyze the role of	usin	g De	ep N	-		nce,	and (Comp	outer	Scie	ence in			
		the process of Big [Data	•	•									12M	CO3	L4
						UNIT	-IV									
7.		Explain the Real-T		Arch	itectu	ure f	or co	onver	satio	ns in	i Big) Dat	a with			
		detailed description	?											12M	CO4	L2
0			1	·• 1 - 1'		OR		۰						4014	004	
8.		Summarize the Imp	ieme	ntatio	on of	ыg I	Jata	Analy	ICS I	n Drie	er.			12M	CO4	L4
						UNI	F-V									
9.	a)	Illustrate Hadoop M	apRe	educe	e with	the	help	of an	Exai	mple.				6M	CO5	L3
	b)	State the importanc	e of I	Hado	ор М	apRo OR		e.						6M	CO5	L2
10.		List and mention the	e Bui	ldin <u>a</u>	blocl			oop N	/lapR	educ	e in l	brief?)	12M	CO5	L4
				5			**	•	•							

	Hall	Ticket Number :			
	`		R-	19	
Ľ	200	L E: 19DF4DT M.C.A. IV Semester Regular Examinations July 2021			
		Cloud Computing			
		. Marks: 60	Time:		
/	Ansv	ver any five full questions by choosing one question from each unit (5> *********	×12 = 60) Marl	<s)<="" td=""></s>
			Marks	со	Blooms
		UNIT–I			Level
1.	a)	What is a Cloud? Give different types of Clouds	6M	CO1	L2
	b)	Give the advantages and disadvantages of having the cloud	6M	CO1	L1
	,	OR			
2.	a)	Discuss the various services provided by cloud	6M	CO1	L1
	b)	What are the developments in cloud computing?	6M	CO1	L2
0	、		014		
3.	a)	What are the various schedules that can be collaborated in cloud?	6M	CO2	L2
	b)	How are projects managed and scheduled in a cloud? Write in brief. OR	6M	CO2	L2
4.	a)	Write in brief about Group Projects and Events collaboration in cloud	6M	CO2	L1
••	b)	How is communication in email centralized in cloud? Explain	6M	CO2	L2
	,		•	002	
		UNIT–III			
5.	a)	Give the uses of collaborating spreadsheets. How do you do it?	6M	CO3	L1
	b)	Discuss the uses of collaborating event management in a cloud? How it is	014		
		done?	6M	CO3	L1
6	2)	OR	GM		10
6.	a) b)	How do you evaluate web mail services?	6M	CO3	L2
	b)	In a cloud how do you collaborate contact management?	6M	CO3	L1
		UNIT–IV			
7.	a)	Discuss how to evaluate online file storage.	6M	CO4	L1
	b)	Write about photo sharing communities.	6M	CO4	L1
		OR			
8.	a)	Write about online photo editing applications.	6M	CO4	L1
	b)	Write about book marking services.	6M	CO4	L1
		UNIT–V			
9.	a)	Give the application life cycle of Google App Engine	6M	CO5	L1
	b)	Write about the advanced computer services.	6M	CO5	L1
	,	OR		-	
10.	a)	Write about the amazon web services.	6M	CO5	L1
	b)	Give the architecture of Microsoft Windows Azure Platform.	6M	CO5	L1

	Hall Ticket Number :										_		
	Code: 19DF44T										R	-19	
	M.C.A.			-					-	[,] 202	1		
	Max. Marks: 60	Data V	Vareho	ousin	g &	Dai	a N	\inii	ng		Time	e: 3 H	OUR
	Answer any five full ques	stions by	/ choosir	ng on	e qu	estio	n fro	me	ach u	init (5			
				****	****								Blooms
		F			7						Marks	СО	Level
			UNIT]								
1.	Write a short notes on t	the follow	ving with	exam	ples								
	a) Data Cubes b) Snow Flakes										12M	CO1	L1
			OR								12101	001	
2.	Define data warehouse	. Draw tł	ne archite	cture	of da	ta wa	areho	use	and e	xplain			
	the three tiers in detail?	?									12M	CO1	L3
		F			,								
-		• "	UNIT-]								
3.	What is aggregation? \ an example?	When we	e use ago	regat	ion in	data	a war	ehou	ising'	' Give	12M	CO2	L2
	an oxampio.		OR								12101	002	
4.	a) Explain the process	of securi	-	ery an	id bad	ckup	in da	ta wa	areho	use?			
	b) What is the difference	e betwe	en testing	and	tuning	g dat	a wa	rehou	use?		12M	CO2	L3
		_			-								
			UNIT-										
5.	Explain about what are	the issu		consid	dered	durir	ng da	ita in	tegrat	ion?	12M	CO3	L3
c	Cuppede e group of 10		OR				4 a d a	a fall					
6.	Suppose a group of 12 5, 10, 11, 13, 15, 35, 50	-			sbee	n sor	ted a	IS TOI	ows:				
	Partition them into three				llowir	ng me	ethod	s:					
	(a) equal-frequency (ec	-				0							
	(b) equal-width partitior	ning									12M	CO3	L2
		Г			1								
7	Fundain have to income		UNIT-			:	~		4h				
7.	Explain how to impro example?	ove the	emciency	ora	aprior	i aig	orithi	n wi	in su	litable	12M	CO4	L3
			OR									001	
8.	Explain about following	ı terms w	vith suitab	le exa	ample	es							
	a) Mining associat		•	datab	bases	;							
	b) Measuring Cent	tral tende	ency								12M	CO4	L3
		Γ			1								
9.	Explain about issues re	aardina	UNIT-		nd pr	odict	ion2				12M	CO5	L3
э.		garung	OR	uon a	nu pi	euici					12101	005	LJ
10.	Write a short notes on	grid base		ina m	ethoo	ds wit	h exa	ampl	e?		12M	CO5	L2
				***								500	

F	lall 7	Ticket Number :	· ·	R-19	
C	ode	: 19DF43T		<u> </u>	
		M.C.A. IV Semester Regular Examinations July 202	1		
		Python Programming Marks: 60 er any five full questions by choosing one question from each unit (5		e: 3 H 60 Ma	
		******	Marks	со	Blooms Level
1.	2)	UNIT-I	5M	004	L1
1.	a) b)	List the salient features of python programming language Summarize and explain different literals of Python.	7M	CO1 CO1	L1
	D)	OR	7 111	001	LZ
2.	a)	Contrast interactive mode and script mode of python environment with			
۷.	aj	examples.	5M	CO2	L2
	b)	List all the available operators in python with example.	7M	CO3	L1
	,	UNIT-II			
3.	a)	Briefly explain Boolean Expressions in Python with examples.	6M	CO2	L2
	b)	Describe about local and global scope of variable in python.	6M	CO3	L2
		OR			
4.	a)	Develop a program to print the number of days in a given month by using multi-way selection statement.	6M	CO3	L3
	b)	Explain about different sequence operations in python with examples.	6M	CO3	L2
		UNIT–III			
5.	a)	Define function? Contrast keyword and positional arguments with			
		example programs.	6M	CO1	L2
	b)	Describe about mapping functions in Dictionary using any example	6M	CO2	L2
		OR			
6.	a)	Write a neat notes on turtle graphics with suitable examples.	6M	CO3	L2
	b)	Demonstrate about object references and assignment of references			
		with examples.	6M	CO3	L2
7.	a)	UNIT-IV Demonstrate Exception handling programs in python with examples.	6M	CO4	L3
1.	а) b)	Differentiate Python module importing, loading and execution with	OIVI	004	LU
	0)	examples.	6M	CO3	L2
		OR			
8.	a)	Define Dictionary. Describe in detail about methods of a dictionary.	6M	CO2	L2
	b)	Define set. Explain in detail about operations of a set.	6M	CO2	L2
		UNIT-V			
9.	a)	Define a recursive function. Develop a program to find factorial of a			
		given number using recursion.	6M	CO3	L3
	b)	Describe about merge sort algorithm using recursion.	6M	CO4	L3
		OR			
10.	a)	Illustrate object oriented programming features with examples.	6M	CO5	L3
	b)	Describe about decision tree visualization with example program.	6M	CO4	L2

	Н	all Ticket Number :]	[_
		de: 19DF41T	I	[1	I]	I	I			R-19	?	
		M.C.A. ľ	V Sen	neste	er Re	aulo	ar Ex	am	inat	ions	Juh	v 202	1			
					war	-						,				
	Mo	ax. Marks: 60 Answer all five units I	by cho		g one		stion		_	ch ui	nit (ł	5 x 12		e: 3 H Marks		5
														Marks	со	Blooms Level
					UNIT	- I										
1.	a)	"Software Engineering	is a La	ayard	Techr	nolog	y" Ju	stify						6M		5
	b)	List out the types of so	oftware	mythe	5									6M		1
					O	R										
2.	a)	Summarize the attribut	tes enc	ounte	ered ir	the	vasti	najo	rity o	f Wel	оАрр	S.		6M		2
	b)	What is agile process?	PList a		-		_							6M		2
~	-)	Englain in an an tal an														0
3.	a) b)	Explain incremental pr						•	otion					6M		2 2
	b)	Discuss the structure of	DI SOILW	arere	quire O l		s spe	ecinic	alion	•				6M		2
4.	a)	Write briefly about req	uiromo	nte ali	-		d ana	alveic						6M		2
ч.	a) b)	What is data modeling						-						6M		2
	0)	What is data modeling			UNIT-			nout	Jinig.					OW		Ľ
5.	a)	What is architectural de	sign? II				ural de	esign	proc	ess w	vith ar	n exarr	nple.	6M		3
	b)	What do you understa												6M		2
					O	R	-					-				
6.	a)	Briefly explain the desi	ign cor	cepts										6M		2
	b)	Discuss objects and cl	asses	in Obj	ect O	riente	ed De	sign						6M		2
				l	UNIT-	-IV										
7.	a)	What is automated s	static a	nalys	is an	d ho	w it	is u	ised	in v	erific	ation	and			
		validation?			. ,							-		6M		3
	b)	What are the essential	chara	cterist			used	tor te	est au	utoma	ation	?		6M		2
•	、				O	R										
8.	,	Explain about compon		•										6M		2
	b)	Illustrate how static ve	rificatio		sed ir UNIT:		clear	i rooi	n de	velop	men	t proce	ess.	6M		4
9.	a)	What are the different	activiti	es in p	orojec	t plar	ning							6M		2
	b)	Identify top 5 risk items	s and r	isk ma	anage O I		tech	niqu	es fo	r mar	nagin	g ther	n?	6M		2
10.	a)	Explain the scheduling	of sof	ware	proje	ct.								6M		2
	b)	Illustrate the principles	of the	COC	ОМС	II mo ****		or alg	orith	mic c	ost e	stima	tion.	6M		2

le: 19DF42T M.C.A. IV Semester Regular Examinations July Unix & Network Programming IX. Marks: 60 wer any five full questions by choosing one question from each u ******** UNIT-I Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands	Time: 3 Ho	rks)
Unix & Network Programming IX. Marks: 60 wer any five full questions by choosing one question from each u ********* UNIT–I Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands	Time: 3 Ho unit (5x12 = 60 Mo ^{Marks} CO 12M	Blo
IX. Marks: 60 wer any five full questions by choosing one question from each u ******** UNIT–I Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands	unit (5x12 = 60 Ma Marks CC 12M	Blo
UNIT–I Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands	Marks CC 12M	Ble
UNIT–I Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands	12M) .
Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands	12M	, Γ
Explain the architecture of the UNIX operating system. OR Illustrate grep, egrep and fgrep Commands		
OR Illustrate grep, egrep and fgrep Commands		
Illustrate grep, egrep and fgrep Commands	12M	
UNIT–II		
Write shell script to calculate factorial of the given number.	6M	
List different file attributes and permissions.	6M	
OR		
Give a brief description of shell Metacharacters.	6M	
Explain in detail about system calls for file process.	6M	
UNIT–III		
Explain exit, wait, waitpid system calls	12M	
OR		
Briefly describe setjmp and longjmp Functions	6M	
Difference between fork and vfork system calls	6M	
Briefly describe kill, raise functions	6M	
Explain sigsetjmp and siglongjmp Functions OR	6M	
Define signal and Outline different signals.	12M	
Denne Signal and Oddine different Signals.	12101	
UNIT-V	12M	
UNIT-V Describe Interprocess Communication using Shared Memory		
	4014	
	Describe Interprocess Communication using Shared Memory OR	Describe Interprocess Communication using Shared Memory 12M