Hall T	Ticket Number:
Code	: 19DE11T
	M.C.A. I Semester Supplementary Examinations July 2021
	Accounting and Financial Management
	Marks: 60 Time: 3 Hours
answe	er all five units by choosing one question from each unit ($5 \times 12 = 60$ Marks) ********
	UNIT-I
1.	What is meant by double entry system? Explain its advantages and limitations?
	OR
2.	Prepare journal entries from the following.
	Jan1 2019 started business with cash Rs 10000
	Jan 2 paid into bank Rs 2000
	Jan 5 purchased goods from bhartat Rs 5000
	Jan 10 sold goods for cash Rs 50000
	Jan 15 paid telephone charges Rs 1000
	Jan 20 goods distributed by way of free samples Rs 1500
	Jan 25 payment made to ram Rs1000 he allowed a cash discount of Rs 100 Jan 30 with draw goods for personal use Rs 2000
	UNIT-II
3.	Elaborate the cost volume profit analysis?
0.	OR
4.	Explain the advantages and limitations of BEP?
	UNIT-III
5.	What is ratio analysis? Explain advantages and disadvantages of ratio analysis.
	OR
6.	From the following information calculate
0.	a) Current ratio b) Gross profit ratio c) Working capital ratio d) debt equity ratio
	e) stock turnover ratio
	Net sales Rs 3000000 Paid up share capital Rs 5000000
	Cost of goods sold Rs2000000 Debenture Rs 250000 Current assets Rs 600000 Loan Rs 125000
	Current liabilities Rs 200000 Stock Rs 3000000
	Current maximum ne 200000 Ctock no occordo
	UNIT-IV
7.	Define Financial Management? Explain its objectives.
	OR
8.	Discuss about sources of finance?
	UNIT-V
9.	What are the techniques of capital Budgeting and explain briefly?
	OR
10.	Elaborate the capital budgeting process?
	END

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		C.A. I Se	mest	er Sup	oplen	nent	ary I	Exar	ninc	oita	ns Ju	ıly :	2021			
		_		Probo	ability	an an	d St	atist	ics							
	Max. Marks: 60 Answer any five		tions	by cho	osina	one	augs.	tion f	rom	900	sh uni	+ /		3 Hou		
	Answer any nive	Ton ques	1110113	Dy Cric	_	****		110111	10111	Cuc	211 0111	, ,	JX12 - 0	o mark.	> 1	
														Marks	CO	BL
					UNIT-											
1												wha	at is the	4014		
	probability that	sum is od	ia (i) v	vith rep		` ') with	out re	epiac	eme	nt			12M	CO1	L2
2	A sample of 4 in	tomo io o	alaata	d ot ror	OR		hov	oonto	vinina	. 12	itomo	of	which E			
_	are defective. F									, 12	пешь	UI	WITICITS	12M	CO1	L2
			•		UNIT-											
3	Fit a binomial di	istribution	to the	e follow	ing dat	a.	l									
		Х		0	1		2	3		4	5					
	Fre	equency(f)	2	1	4	20	34	2	22	8			12M	CO2	L3
					OR											
4					52 card	ds. F	ind th	e pro	obab	ility	of get	ting	2 to 5	4014		
	diamonds using	normal c	distribi				1							12M	CO2	L3
5	The mean heig	ht of stu	dents		UNIT-I		5cms	and	stan	dard	devis	atio	n is 15			
J	What is the prof				•									12M	CO3	L2
	·	-			OR											
6	Find 95% confi	dence lin	nits fo	r the n	nean o	f a n	ormal	ity di	strib	uted	popu	lati	on from			
	which the follow	ing samp	le wa	s taken	15, 17	, 10,	18, 10	6, 9, 7	7, 11	, 13,	and 1	14.		12M	CO3	L2
_				"	UNIT-I											
7	A random samp 44, 45, 48, 46,		_	-						-						
	taken to be 50 k		anu 4	o (iii kį	<i>ys)</i> . 16	St Wi	ieti iei	uic	avei	aye	раскі	iiig	can be	12M	CO4	L4
		J			OR											
8	Fit a Poisson d	istributior	n to th	ne follov	wing da	ata ai	nd foi	r its g	good	ness	of fit	at	level of			
	significance 0.0	5 level of	signif	icance												
			Х	0	1	2	3	4								
			f	419	352	154	56	19						12M	CO4	L4
0	The mean rate	of ownived	of plo		UNIT-			رم مط	م ماد «		d : a O	۸ "				
9	The mean rate The number of		•		•		•	•	•			•				
	congestion the			-												
	other planes that			-	-	er ho	ur ca	n lan	d in (good	l weat	her	and 30			
	planes per hour					<i>.</i>										
	(a) How many p weather and				over th	e field	d in tr	ie sta	ICK O	n an	avera	ige	ın good			
	(b) How long a				stack i	n the	proce	ess o	f land	dina	in aod	od a	and bad			
	weather?	,,,,,,,									9			12M	CO5	L3
					OR											
10	Customers arriv	e at a o	ne wir	ndow d	rive-in	bank	acco	rding	to a	Poi	sson	dis	tribution			
	with mean 10	•			•				•							
	minutes. The caccommodate a	•						•					ced can			
	(a) What is the										-		pace in			
	front of the	•	,			11	50		. 		, "		,			
	(b) What is the		lity th	at an a	arriving	cust	omer	will	have	to	wait o	outs	side the			
	indicated sp													461.		
	(c) How long is	arriving c	ustom	er expe				re sta	arting	ser	vice.			12M	CO5	L3
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M.C.A. I Semester Supplementary Examinations July 2021

Mathematical Foundations of Computer Science

Max. Marks: 60 Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x12 = 60 Marks)

	ΛI 13	********	- 00 1410	JINS J	
			Marks	СО	BL
		UNIT-I			
1.	a)	Explain Conjunction , Disjunction and Conditional Proposition with example	6M	1	L1
	b)	Obtain disjunctive normal form of PV (~ P (Q V (Q ~ R)))	6M	1	L5
		OR			
2.	a)	If p, q and r be the propositions			
		P: you have the flee			
		q : you miss the final examination			
		r: you pass the course.			
		Write the following propositions into statement form.			
		(i) $\sim p$ r (ii) p q r (iii) (p $\sim r$) (q $\sim r$) (iv) (p q) ($\sim q$ r).	6M	1	L3
	b)	Show that RVS is valid conclusion from the premises:			
		C D, (C D) ~H , ~H (A ~B), (A ~B) R S	6M	1	L3
		UNIT-II			
3.	a)	Define a Relation? Explain Reflexive, Symmetric and Transitive relations with	014	_	
		an example	6M	2	L1,L2
	b)	Let A = { 1, 2, 3, 4, 6, 12 }. On A, define the relation R by a R b if and only if a divides b. Prove that R is a partial order on A. Draw the Hasse diagram for this			
		relation.	6M	2	L1,L5
		OR		_	,_0
4	a)	Define Compatibility Relation.			
••	u,	Let X = { ball, bed, dog, let, egg } and let the relation R be given by R =			
		$\{ \langle x, y \rangle / x, y \in X \mid x \in X \}$ and y contain some common letter and also			
		draw maximal compatibility block for the given relation.	6M	2	L1,L4
	b)	Explain the following by giving a suitable example			
		i) Totally ordered set ii) Lattice	6M	2	L2
		UNIT-III			
5.	a)	Find the number of permutations of the letters of the word MASSASAUGA. In how			
		many of these, all four A's are together? How many of them begin with S?	6M	3	L3,L5
	b)	Woman has 11 close relatives and he wishes to invite 5 of them to dinner. In			
		how many ways can she invite them in the following situations i) There is no restrictions on the choice			
		ii) Two particular persons will not attend separately			
		iii) Two persons will not attend together.	6M	3	L5
		OR			
6.	a)	Determine the number of positive integers 100 which are divisible by 3 or 7?	6M	3	L3
	b)	Show that if any 30 dictionaries in a library contain a total of 61,327 pages,			
		then one of the dictionaries must have at least 2045 pages.	6M	3	L3

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		UNIT-IV							
7.	a)	Find the generating function for the sequence 0^2 , 1^2 , 2^2 , 3^2 , 4^2 ,	6M	4	L4				
	b)	The number of virus affected files in a system is 1000 (to start with) and this increases 250% every two hours. Use a recurrence relation to determine the number of virus affected files in the system after one day.	6M	4	L5				
		OR							
8.		Find the generating function for the recurrence relation $a_{n+1} - a_n = n^2$, $n = 0$ and $a_0 = 1$. Hence solve it.	12M	4	L3				
9.		Explain the following							
		i) Complete Graphii) Complete Bipartite Graphiii) Planar Graph.iv) Euler's graph	12M	5	L2				
		OR							
10.	a)	What is graph coloring? What is chromatic number? Explain them with suitable examples.	6M	5	L1,L2				
	b)	Explain kruskal's algorithm with an example	6M	5	L2				
	****END****								

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M.C.A. I Semester Supplementary Examinations July 2021

		M.C.A. I Semester Supplementary Examinations July 2021			
		Problem Solving with 'C'			
			e: 3 Ho		
	Ans	wer any five full questions by choosing one question from each unit ($5x12 = **********$	60 Mai	rks)	
			Marks	СО	BL
		UNIT-I			
1.	a)	Discuss the advantages of algorithms and flowcharts. Draw a flow chart for the			
		prime number program.	6M	CO1	L2
	b)	Write a short note on (i) Bitwise operator (ii) Conditional operator (iii) sizeof			
		operator.	6M	CO2	L2
		OR			
2.	a)	What are the steps involved in program development process? Explain.	6M	CO1	L2
	b)	Write an algorithm, flowchart and Program to swap of two values using two	6M		
		variables.	OIVI	CO2	L2
		UNIT-II			
3.		Explain the following			
		a) break b) continue c) goto statements with example.	12M	CO2	L4
		OR			
4.	a)	Explain formatted input / output functions used in C programming with	01.4		
	I- V	suitable examples	6M	CO2	L2
	b)	Differentiate between else-if and switch? Explain with an example.	6M	CO4	L3
5.		UNIT-III			
٥.		Explain the concept of passing strings to functions as dynamic arrays with a program.	12M	CO3	L2
		OR	12111	000	LZ
6.					
0.		With the help of syntax and example program explain the various string handling functions.	12M	CO2	L2
		UNIT-IV			
7.	a)	How is a structure variable different from an array with respect to its use as a			
		function parameter?	6M	CO5	L2
	b)	What is recursion? Write a program to print first 10 numbers of Fibonacci			
		Series.	6M	CO2	L2
		OR			
8.	a)	What are Structures? How they are different from Unions, explain with an			
		example.	12M	CO5	L2
		UNIT-V			
9.	a)	What is a pointer, pointer to a pointer and explain the advantages of using			
		pointers?	6M	CO5	L2
	b)	Write in detail about the various dynamic memory allocation functions	6M	CO5	L3
		OR			
10.	a)	Discuss about file I/O operations.	6M	CO5	L3
	b)	Describe different forms of Macro Substitutions	6M	CO5	L2

****END****

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M.C.A. I Semester Supplementary Examinations July 2021

Technical Communication

Max. Marks: 60 Time: 3 Hours
Answer any five full questions by choosing one question from each unit (5x12 = 60 Marks)

	An	swer any five full questions by choosing one question from each unit ($5x12 = 6$ *********	50 Marl	ks)	
			Marks	СО	BL
		UNIT-I			
1.		Define Communication and explain the process of Communication. OR	12M	CO1	L3
2	a)	Elucidate the concept of communication with principles and strategies.	61/1	CO1	L3
	•	"Response of the receiver is feedback" - Explain the feedback mechanism with	Olvi	COT	LO
	b)	examples.	6M	CO1	L3
		UNIT-II			
3.		"Effective Non-Verbal communication is the base of personal & professional development" – Elucidate with exampls.	12M	CO2	L2
		OR		002	
4	a)	Give a detailed account of Kinesics in Non-Verbal Elements, with suitable examples.	6M	CO2	L2
т.	,	·			
	b)	What are the tips for effective Oral Presentations? UNIT-III	6M	CO2	L3
5.	a)	Describe the strategies of Effective Presentation.	6M	CO4	L2
	b)	Write a complaint letter to P&G Company on a received product which ordered one			
	,	item but received another, failed to have a warranty honored. You want to write			
		letter of complaint to solve these problems.	6M	CO4	L2
		OR			
6.	a)	Imagine you are a manager of a company; one of your team members had done			
	,	improper communication with fellow teammates. You have to suspend him/her			
		based on his/her under company disciplinary action. Write a suspension memo			
		with proper reasons.	6M	CO4	L2
	b)	Write the structure & styles of Memos.	6M	CO4	L2
	υ)	UNIT-IV	Oivi	004	
7.	a)	List out the types of Repots and mention its significance.	6M	CO5	L3
	b)	A fire accident took place in a unit of your company which damaged the machinery			
	/	costing Rs. 2 lakh. You are asked submit a detailed Report on the accident by analyzing			
		the incident and suggest recommendations.	6M	CO5	L3
		OR			
8.	a)	Imagine you are a coordinator of the blood donation camp which recently held in			
	,	your campus regarding that you have to prepare a report by using needy			
		credentials and submit your district collector same.	6M	CO5	L3
	b)	Elucidate the objectives and characteristics of Report.	6M	CO5	L3
	~)	UNIT-V	Olvi	000	
9.	a)	Dress code and body language play a vital role in successful Interview – Explain.	6M	CO3	L3
	b)	Write a note on the following:			
	۵)	I. HR interview			
		II. Telephone interview	6M	CO3	L3
		OR			_•
10.	a)	Group Discussion is a very important process for campus recruitment – Elucidate.	6M	CO3	L3
	b)	Draft a sample Resume of your profile as per the standard Resume Format.	6M	CO3	L3
	~,	***END***	Sivi	000	_0