Code: 20AC4ST II B.Tech. II Semester Supplmentary Examinations Dec 2022 / Jan 2023 Managerial Economics & Financial Analysis (Common to EEE & ME) Time: 3 Hours Max, Marks: 70 Time: 3 Hours Note: 1. Question Paper consists of two parts (Part-A and Part-B) 1. In Part-A, each question carries Two mark. 3. Answer ALL the questions in Part-A and Part-B Answer ALL the questions in Part-A and Part-B AltrA (Compulsory question) 1. Answer ALL the following short answer questions (5 X 2 = 10M) CO Blooms Evel a) Explain Arc method for measurement of elasticity of demand. CO1 L2 b) Define contribution. Explain any two formulas for calculation of contribution CO2 L1 explain any four types of costs? CO3 L2 OH CO5 L1 PART-B Answer fire questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks Marks CO Evel a) Define Managerial Economics. Explain its scope. 6M CO1 b) What do you understand by elasticity of demand? Explain. 6M CO1 a) Define Law of Demand. What are its exceptions? Explain. 6M CO1 a) Consider the following data of		Hall Ticket Number :			
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			6M	CO3	

6M CO4

6M CO4

6M CO5

L4

L1

L1

L1

L1



8. a) Consider the case of the company with the following two investment alternatives each costing 9,00,000. The details of the cash inflows are as follows:

Year	Cash flo	ws (in Rs.)
real	Project-1	Project- 2
1	3,00,000	6,00,000
2	5,00,000	4,00,000
3	6,00,000	3,00,000

The cost of capital is 10% per year. Which one will you choose under NPV Method? PV Factors @10% : 0.909, 0.826, 0.751

- b) Define capital. Explain importance of capital in an organization 6M CO4 OR
- 9. a) What is capital budgeting? Explain its needs and importance. 6M CO4 L1
 - b) Define capital. Explain various types of capital

UNIT-V

- 10. a) What does a ratio analysis measure? Explain significance of ratio analysis. 6M CO5
 - b) Define Accounting. Explain objectives of accounting.

OR

11. The Trail balance of Mr. Ramesh as on 31st March, 2020 revealed the following balances. Prepare trading, profit and loss A/c for the year ending 31st March, 2020 and a balance Sheet as on that date.

Particulars	Amount	Particulars	Amount
Plant & machinery	160,000	Capital account	200,000
Purchases	136,000	Sales	250,000
Sales returns	2,000	Purchase returns	6,550
Opening stock	60,000	Discount received	1,600
Discount allowed	700	Sundry creditors	50,000
Bank charges	150		
Sundry debtors	90,000		
Salaries	16,000		
Wages	20,000		
Insurance	1,500		
Rent and rates	4,000		
Advertisements	4,000		
Cash in hand	13,800		
	508,150		508,150

Adjustments:

i) Closing Stock was valued at Rs. 70,000,

ii) Outstanding Salaries Rs.1000, and

iii) Prepaid insurance Rs.500

		Hall Ticket Number :			
		ode: 20AC42T	R-2	20	
		II B.Tech. II Semester Supplementary Examinations Dec 2022 /	Jan 20)23	
		Numerical Methods and Random Variables			
		(Common to EEE & ECE)			
	Μ	ax. Marks: 70	Time: 3	3 Hou	irs
	No	 ote: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two mark. 3. Answer ALL the questions in Part-A and Part-B 			
		<u>PART-A</u> (Compulsory question)			
1	Δ	Inswer ALL the following short answer questions $(5 \times 2 = 10M)$		со	Blooms
					Level
a)	Find	the missing term in the following data:		C01	L1
		<u>45.0</u> 49.2 54.1 67.4			
b)	.			C02	L1
,		$en_{\frac{dy}{dx}} = \frac{1}{x + y} \text{ with}^{i} \text{ initial condition } \frac{54}{y = 1} \text{ at } \frac{0}{x = 0}; \text{ find } \frac{4}{y \text{ for } x = 0}.1 \text{ by E}$	uler's		
		h0(d. Use $h = 0.05$.		• • • •	
		e the empirical relation between mean, median and mode.		C03	L2
,	•	air of dice is tossed twice. Find the probability of scoring 7 points twice.		C04 C05	L1 L3
e)	Dele	ermine the probability of getting 9 exactly twice in 3 throws with a pair of fair di	ice.	005	LJ
		PART-B Answer <i>five</i> questions by choosing one question from each unit ($5 \times 12 = 6$	60 Mark	s)	
		$\frac{1}{1000} = \frac{1}{1000} = 1$	Marks	CO	Blooms
		UNIT–I			Level
2.	a)	By the bisection metho			
		$\sin \frac{\text{using1}}{x = \frac{1}{x}}$, that lies between $\frac{d}{x = \frac{1}{x}}$ and $\frac{\text{pprox}}{x = \frac{1}{x}}$.5 (measured in radians).			
		Carry out the computations up to 5th stage.	6M	CO1	L1
	b)	Determine the cubic polynomial which takes the following values:			
		$\begin{array}{c c c c c c c c c c c c c c c c c c c $			
		Hence calculate ^{7 (4)} .	6M	CO1	L3
2					
3.	a)	Find a real root of the equation $O_{\mathbf{R}}$ by regula-falsi method correct to four decimal places.	6M	CO1	L1
	b)	Use Lagrange's interpolation number Determine the value of the len rect	0111	001	LI
	,	10, if the following values of $\int_{x}^{1} \int_{y}^{1} dx = \int_{x}^{1} \frac{dx}{dx} = \int_{x}^{y} \frac{dx}{dx} = \int_{x}^{y$			
		<u>xes</u> <u>y</u> 12 13 14 16	6M	CO1	L3
		UNIT–II			
4.	a)	Solve $\int_{0}^{-\epsilon} \frac{dx}{1+x^2}$ by $u_{sing Trap}^{\epsilon}$ ezoidal rule.			
	,	Solve $\int_0^{5} \frac{1}{1+x^2}$ by $u_{sing Trap}$ excluditule.	6M	CO2	L3

Page **2** of **2**

Code: 20AC42T

											oue. 20	JAC421	
	b)	Solve $\frac{dy}{dx} = 1$ series method	og(_{xy} od.) for y(l) a	and $y(1)$	2), giv	/en ᢧᢗ	= 2,	by using Taylor's	6M	CO2	L3
						0	R						-
5.	a)	Llee Simpsor	n'e 1/3	rule to	find	-c 0	F.	inc		ordinates	CN 4		
	,	$\int \frac{\partial f}{\partial t} = \int \frac{\partial f}{\partial t$								01/1	CO2	L1	
	b)	Us mpsor using modified $y' = y + e^{-y}$	nea L		metr	10a, a	etermir		а s() а то.:	ING nateł) given y(0.4	6M	CO2	L3
						UNI							
6.		Determine i distribution:	mean,	media	an a	nd sta	indard	devia	ation f	or the following			
		Mid Value	15	20	25	30	35	40	45	50 55			
		Frequency	2	22	19	14	3	4	6	1 1	12M	CO3	L3
						0	R						
7.		Determine th	e corr	elation	coeff	icient fo	or the f	ollowir	ng data	:			
				atior	1	2	3	4	5				
				x: y:	2	5	3	8	7		12M	CO3	L3
						UNI	T–IV						
8.										ner box II contains			
										boxes is chosen at			
										sen box, find the) 3 (iii) 1 or 9.	12M	CO4	L2
		probabilities	unat un		uiaw	0 0	_	u (i) z	01 + (11) 5 (11) 1 61 5.		004	LZ
9.		Suppose a c	ontinu		aw								
9.		Suppose a c	onunu	ous R.	V h	$as_{1}e_{2}$ $as_{2}e_{2}$ 1 - x	probab	oility de	ensity				
				f(x) =	$= \begin{cases} k \end{cases}$	[1 - x]) for	0 < 2	x < 1				
		(a) Find k (k	a) Fin		(0 v < 03	els	ewhe	re	Using distribution			
										n 0.3 (e) between			
										probability density			
		function.									12M	CO4	L2
						UNI	T–V						
10.	a)	•	•	•			•			vill be defective is			
			•			•	ermine	e the p	orobabil	lity that (a) exactly	CN 4		
		two (b) at lea					•		,		61/1	CO5	L3
	b)		•	•	•					ms in a sample of	сM	CO5	1.0
		100 items if 2	2 /0 01		laue	0 0	•	aleue	SIECUVE	·.	ON	005	L3
4.4			oword	o diatin	otion	-		aand	alaaa t	hird aloog or poop			
11.		•								hird class or pass or more; between			
			•			•				arks respectively.			
										he percentage of			
		•	tting	second	l clas	ss. As	sume	that	marks	X are normally			
		distributed.									12M	CO5	L3
							ماد داد <u>م</u>	I als als d					

*** End ***

	Hall Ticket Number :			
	Code: 20A242T	R-2	0	
	II B.Tech. II Semester Supplementry Examinations Dec 2022 / Electrical and Electronics Measurements (Electrical and Electronics Engineering)	Jan 20:	23	
	Max. Marks: 70	Time: 3	8 Hou	rs
	 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two mark. 3. Answer ALL the questions in Part-A and Part-B <u>PART-A</u> (Compulsory question)			
1.	Answer ALL the following short answer questions $(5 \times 2 = 10M)$		со	Blooms Level
a)	How dynamometer instrument can be realized as a tran instrument?	sfer	1	1
b)	How will you test the single phase energy meter?		2	1
c)	List out the limitations of AC potentiometers.		3	1
d)	Why is the Wheatstone bridge not suitable for measuring resistance?	low	4	2
e)	What is a digital voltmeter? What are various types of DVM?		5	1
	PART-B Answer <i>five</i> questions by choosing one question from each unit ($5 \ge 12 = 0$	60 Mark Marks		Blooms
		Marks	00	Level
2.	UNIT-I Explain the principle of operation of attraction type moving iron instrument, showing how it is suitable for ac and dc measurements.	12M	1	2
3.	Explain the working of electrostatic instruments with neat sketch. Derive an expression for Deflecting Torque.	12M	1	2
4.	UNIT–II Explain with a neat circuit of Dynamometer type Wattmeter and derive the equation for deflection. OR	12M	2	2
5.	Describe the working of a single phase electrodynamic power factor meter. Compare its working with a moving iron type power factor meter.	12M	2	4

UNIT-III

Draw a connection diagram of Crompton potentiometer and 6. bring out its salient features. How is it standardised? 12M 3 3 OR What are the problems associated with ac potentiometer? 7. Describe the working of any one ac potentiometer with neat sketch. 12M 3 2 **UNIT-IV** 8. Describe the circuit of Kelvin double bridge used for measurement of low resistance. Derive the conditions for balance. 12M 4 4 OR Explain the procedure of measuring a low resistance with the 9. help of Kelvin's double bridge. Derive the necessary relation for finding the unknown resistance under balanced condition of the bridge. 12M 4 2 UNIT-V 10. Draw and explain the circuit of a digital frequency meter. What methods the different used for high frequency are determination? 12M 5 3 OR Explain the following with neat sketch: 11. (a) Integrating type DVM. (b) Digital multimeter 12M 5 2 *** End ***

I	Hall Ticket Number :			7
Co	ode: 20A243T	R-20		
	II B.Tech. II Semester Supplementary Examinations Dec 2022 /	Jan 20)23	
	Electromagnetic Fields			
	(Electrical and Electronics Engineering)	.		
Μ	ax. Marks: 70	Time: 3	3 Hour	S
No	ote: 1. Question Paper consists of two parts (Part-A and Part-B)			
	2. In Part-A, each question carries Two mark.			
	3. Answer ALL the questions in Part-A and Part-B			
	PART-A			
	(Compulsory question)			Disam
1. A	nswer ALL the following short answer questions (5 X 2 = 10M)		CO	Bloom: Level
a) D	efine electric field and write its properties.		CO1	Ľ
b) W	rite the expression for electric potential due to dipole.		CO1	Ľ
,	educe the expressions for H and B of toroid.		CO2	Ľ
	hat does Lorentz force equation specify?		CO3	Ľ
e) Ex	xpress the relation between displacement current density and electric flux den	sity.	CO4	Ľ
	PART-B			
	Answer <i>five</i> questions by choosing one question from each unit ($5 \ge 12 = 6$	0 Mark	s)	
		Marks	со	Blooms
		Marks	00	Level
. a)	UNIT–I Three equal positive charges of 4×10 ⁻⁹ coulomb each are located at three			
. а)	corners of a square, side 20cm. determine the electric field intensity at the			
	vacant corner point of the square.	6M	CO1	L
b)	Determine the electric field intensity due to infinite line charge, at a point			
	perpendicular to its plane and at a given distance from the line charge from			
	first principles.	6M	CO1	L1
	OR			
a)	What is Gauss's law? State and prove it.	6M	CO2	L1
b)	A square sheet defined by -2 x 2m, -2 y 2m lies in the z = -2m plane. The charge density on the chart is $(y^2, y^2, z^2) = 2/2 = 0$ (m ²).			
	The charge density on the sheet is $s = (x^2 + y^2 + z^2) 3/2 \text{ nC} / \text{m}^2$. Calculate the electric field intensity at the origin.	6M	CO2	L3
		0.11	002	LC
. a)	Describe the Laplace and Poisson's equations for electrostatic fields.	6M	CO2	L1
b)	A square parallel plate capacitor 200 mm on side with a plate spacing of 25	2	002	E 1
/	mm is filled with a dielectric slap ($_{r}$ =240 of the same dimensions if 100V is			
	applied to the capacitor). Find: (i) the polarization P in the dielectric and (ii)			
	the energy stored by the capacitor.	6M	CO2	L3

OR

5. a) Deduce the expression for potential due to dipole. 6M CO2 L2 L2

b) Define polarization. Derive the mathematical expression for polarization. 6M CO2

UNIT-III

6.	a)	Calculate the inductance of a solenoid of 200 turns wound tightly on a cylindrical tube of 6cm diameter. The length of the tube is 60cm and the solenoid is in the air.	6M	CO2	L3
	b)	Enumerate scalar magnetic potential and list out its limitations.	6M	CO2	L0 L1
	~)	OR	•	002	
7.	a)	Derive the Maxwell's third equation and explain its importance.	6M	CO2	L2
	b)	Using Ampere's circuital law, find the expression for magnetic field intensity			
	,	of an infinite sheet of current.	6M	CO2	L2
		UNIT–IV			
8.	a)	Deduce the expression for Lorentz force equation	6M	CO3	L1
	b)	Two coils A and B with 800 turns and 1200 turns respectively, have a common magnetic circuit. A current of 0.5A in A will produce a flux of 3mwb	014		
		and 80% of the flux links with coil B. Calculate self-inductance of each coil.	6M	CO3	L4
		OR			
9.	a)	Illustrate the phenomenon of Magnetization in magnetic materials.	6M	CO3	L2
	b)	A toroidal coil of 500 turns is wound on a steel ring of 0.5m. Mean diameter and $2*10^{-2}$ m ² cross sectional area. An excitation of 4000A/m produces a flux density of 1 tesla. Compute the inductance of the coil. If a 10mm long gap is cut in the ring, determine the current required to maintain the flux			
		density at 1 tesla. Also find the inductance under these new conditions.	6M	CO3	L4
10.	a)	Briefly explain the Faraday's law of electro-magnetic induction and derive the expression for induced emf.	6M	CO4	L2
	b)	A square loop of wire 25cm * 25cm is placed in an alternating field with the maximum intensity of 1A/m. If the plane of the loop is perpendicular to the magnetic field and varying at a frequency of 10MHz. Find induced emf in the			
		loop.	6M	CO4	L4
		OR			
11.	a)	Write and explain differential and integral form of Maxwell's equation.	6M	CO4	L2
	b)	Explain the complete concept of displacement currents.	6M	CO4	L3

*** End ***