Hall Ticket Number :					

R-17

III B.Tech. II Semester Supplementary Examinations January 2022 Object Oriented Programming Concepts

(Common to EEE & ECE)

Max. Marks: 70 Time: 3 Hours Answer *any five* full questions by choosing one question from each unit (5x14 = 70 Marks)

		<u> </u>			
			Marks	СО	Blooms Level
		UNIT-I			
1.	a)	Explain the roles of agents, community and messages amongst agents in			
		OOP paradigm.	7M	CO1	L2
	b)	Explain the principles of Object Oriented Programming.	7M	CO1	L2
		OR			
2.	a)	What is an object? How is it different from an ordinary variable and a class?			
		Explain with an example.	7M	CO1	L1
	b)	What is parameterized Constructor? Give one example.	7M	CO1	L1
_	,	UNIT-II	-1.4		1.4
3.	a)	What is Overloading? Explain Constructor overloading with an example.	7M	CO2	L1
	b)	What are pure virtual functions? How are they different from normal functions?	7M	000	L1
		OR	/ IVI	CO2	LI
4.	a)	With an example, explain the syntax for passing arguments to base class			
	u,	constructors in multiple inheritance.	7M	CO2	L3
	b)	Describes the various approaches by which we can detect the end of file			
		condition.	7M	CO2	L5
		UNIT-III			
5.	a)	What are the two control structures used in java for making decisions?			
		Explain with an example program.	7M	CO3	L1
	b)	Explain in detail the most significant features of JAVA programming	7M	CO3	L2
		OR			
6.	a)	How to implement precedence rules and associativity in java language?	71.4	000	1.4
	h)	Give an example. What is the role and responsibility of JVM in program execution?	7M 7M	CO3	L1 L1
	b)	UNIT-IV	/ IVI	CO3	LI
7.	a)	What is an exception? How are exceptions handled in Java programming?			
	,	Explain with suitable program.	7M	CO4	L1
	b)	Design an interface called Shape with methods draw() and getArea().			
		Further design two classes called Circle and Rectangle that implements			
		Shape to compute area of respective shapes. Use appropriate getter and	-1.4		
		setter methods. Write a java program for the same.	7M	CO4	L4
_	,	OR			
8.	a)	What is meant by re-throwing exception? Discuss a suitable scenario for this	7M	004	L1
	h)	What are the benefits of inheritance? Explain the various forms of	/ IVI	CO4	LI
	b)	inheritance with suitable code segments.	7M	CO4	L1
		UNIT-V		001	
9.	a)	Write a program to implement Producer Consumer Problem by using			
		MultiThreading	7M	CO4	L3
	b)	Illustrate different types of Streams in Java.	7M	CO4	L2
		OR			
10.	a)	Write an applet to display the mouse cursor position in that applet window.	7M	CO4	L3
	b)	How to achieve synchronization among threads? Write suitable code.	7M	CO4	L1
		END			

	Hall ⁻	Ticket Number :														1
_	Code	: 7G261							,			_		R-17	7	
		III B.Tech. II Se			•			-					uar	y 2022		
		ŀ	ower : Electr)	-		-						Ol .				
	_	. Marks: 70 er <i>any fiv</i> e full qu	•			ng oi						unit		Time: 3 H 14 = 70 M		
														Marks	СО	Blooms Level
					UI	VIT-	-I									
1	. a)	ا عامما	_				ees	per	M۱	۷h	for	ар	lan	t		
		consisting of														
	$dC1/dPG1 = 0.2P_{G1} + 40.0$															
	$dC2/dPG2 = 0.25P_{G2} + 30.0$ The minimum and maximum leads on each unit are to															
	The minimum and maximum loads on each unit are to															
	be 20 MW and 125 MW respectively. Determine the															
	incremental fuel cost and the allocation of load between units for minimum cost when the loads is 175 MW.															
		Assume both	_			_			Juu	, .0	.,	0 11	,,,,	8M		Ш
	b)				-		•	wit	h lo	sse	s?			6M		VI
	,					or OR										
2	. a)	A system colline and loa transmitted from the tie lind both the plan of the system dc ₁ /dp ₁ =0.03	rom p ne. De nts and n is 25	cate ant- term the Rs/N	ed a 1, a nine po MWI	at pa lo the wer	olant ss o e ge rec	t-2. of 1 ener eive	Wh OM\ atio	en V ta n s y lo	100 ake che ad	DMV s pl dule whe	V is ace e a	s e		
		$dc_2/dp_2=0.06$												10M		Ш
	b)	Write the co					nalit	v w	/her	n tra	ans	miss	sior			
		losses are co				P		,						4M		I
						IIT-		_				_				
3	. a)	Write the exa		ordir	natio	on e	equa	atior	n for	eco	ono	mic		4M		1
	b)	Derive the ex	kpressi	on f	or tl	he p	arti	cipa	ation	fac	ctor			6M		I
	c)	Discuss the	oractic	al co	onst	rain	ts o	n u	nit c	omi	mitr	nen	t			
		problem.												4M		Ш
					(OR										

4.	Describe the hydro thermal economic load scheduling. Derive the necessary equations? UNIT-III	14M	IV
5. a)	Obtain the modelling of 1 st order turbine with transfer function	8M	П
b).	Give the block diagram representation of Steam		
	Turbines and explain each part. OR	6M	III
6. a)	Derive the generator load model and represent it by a block diagram.	8M	II
b)	Write the various characteristics of Excitation systems	6M	П
	and draw its block Diagram. UNIT-IV	OIVI	"
7. a)	Two synchronous generators are operating in parallel. Their capacities are 200 MW and 400 MW. The droop characteristics of their governors are 4%o and 5% from no load to full load. Assuming that generators are operating at 50 Hz at full load. How a load of 450 MW would be shared between them. What will be system		
	frequency at this load?	12M	III
b)	What is the necessity of keeping frequency constant? OR	2M	I
8. a)	Develop the state variable model of a two area system	101/	\/I
b)	and state the advantages of the model. Explain the dynamic interaction between P-f and Q-v	10M	VI
٠,	loops	4M	V
	UNIT-V		
9.	Derive the relation between reactive power flow and the voltage of bus.	4M	II
	Explain clearly what you mean by compensation of lines	TIVI	
	and discuss briefly different methods of compensation. OR	10M	V
10. a)	Explain different devices used to achieve voltage control in transmission and distribution systems.	10M	V
b)	What are the advantages and disadvantages of different types of compensation?	4M	11
	END	1171	.,

	Hal	I Ticket Number :															
L	Cod	le: 7G264													R-17		
		III B.Tech. II Se	eme	ster	Sup	ople	eme	ntar	у Ех	ami	nati	ions	Janu	ary 2	2022		
					Pow	er S	Syst	em	And	alysi	is						
		ıx. Marks: 70 wer any five full qu					ng oi		Jesti	Engir					ne: 3 Hou = 70 Mark		
															Marks Co	O Bloor Leve	
1.		Compute the bus in adding element by	•			rix fo bus(syste refe			_	_		ру			
		0	_							‡ º.	1 p.c	-Ja	Ð				
			j∵0	.25	/u.a			/	/,0	.5 p.s	ı						
					23 -10		③ OR	—							14M		
2.		Explain the modifi				sary nce i	in th	nged		wher	naı	mutua	ally co	upled	14M		
3.		Explain the step I method of load flow	•	•	omp	utatio			dure	for	the	Newto	on-Rap	ohson	14M		
4.		Describe the prodecoupled method		e to) COI	mput			wer	flow	ana	alysis	using	g fast	14M		
5.		A balanced 200V, 3 following figure. If and symmetrical co	the re	esista	ance	feed Rbc	ds ba is di	lance sconi									
				Ia													
				RA	B = 1	Ω0	SW/	1	冬	CA=1	0Ω						
				I _b		\angle	^	ν		7							
				Ic		10	R _{BC} =	=10 £	2						514		
			XÖ.				OR								5M		
6.		Derive the express line to ground fault		or fai	ult cu		t whe		pov	ver ne	etwo	rk is :	subjec	ted to	14M		
7.	a)	Differentiate between	en S	stead	ly sta				ı state	and	Dyr	namic	Stabi	lity of			
		power system.													7M		
	b)	Discuss the various	s met	hods	tor II	•	ving: OR	stead	ly sta	ate sta	ability	/.			7M		
8.		Obtain the power a determine power s	-			n fun	dame		anc	deso	cribe	its a	pplicat	ion to	14M		
9.		Derive the expres power system.	sion	for S	Swing	g equ			 dete	rmine	trar	nsient	t stabi	lity of	14M		
10.		Describe the signi	ficano	na of	DOM		OR vsten	n etəl	aility	uein/	ים ב	رو اورر	rea cri	terion			
10.		during sudden loss			•	ss of	•	condi	tions		y 0 41	uai d	ica Ul	ionon	14M		

R-17

III B.Tech. II Semester Supplementary Examinations January 2022

Switch Gear and Protection

(Electrical and Electronics Engineering)

Max. Marks: 70 Time: 3 Hours Answer *any five* full questions by choosing one question from each unit (5x14 = 70 Marks)

			Marks	СО	Blooms Level
		UNIT-I			
1.	a)	State the requirement of a circuit breaker and explain the basic action of circuit			
		breaker.	7M		I & II
	b)	Explain the process of arc extinction in vaccum.	7M		I & II
		OR			
2.	a)	State the classification of circuit breaker based on different factors.	7M		I
	b)	What are the advantages and disadvantages of SF ₆ breaker?	7M		I
		UNIT-II			
3.	a)	State the advantages, disadvantages and applications of electromagnetic relays.	7M		I
	b)	What is I.D.M.T. characteristics of a relay?	7M		I
		OR			
4.	a)	Explain the operation of basic trip circuit.	7M		I & II
	b)	What is universal relay torque equation? What is its use?	7M		I & II
		UNIT-III			
5.	a)	What are the various types of faults which can occur in a generator? Explain in			
		brief.	7M		1 & 11
	b)	Explain the operation of unrestricted earth fault protection scheme.	7M		I & II
		OR			
6.	a)	State the problems encountered in a simple differential protection of	71.4		1 0 111
	L- V	transformers.	7M		I & III
	b)	A three phase transformer of 220/11,000 line volts is connected in star / delta. The protective transformers on 220V side have a current ratio of 600/5. What			
		should be C.T. ratio on 11,000 v side?	7M		I & III
		UNIT-IV			
7.	a)	Explain time graded protection for radial feeders.	7M		I & II
	b)	List different types of faults in transmission lines.	7M		I & II
		OR			
8.	a)	Explain with a neat sketch construction and working of differential pilot wire			
	,	protection.	7M		II
	b)	Explain various abnormalities occurring in the bus bar.	7M		Ш
		UNIT-V			
9.	a)	What are the advantages of resistive earthing?	7M		I
	b)	State the methods adopted for non-effectively grounded systems.	7M		I
		OR			
10.	a)	What are the harmful effects of lightning strokes on substation equipment's?	7M		1
	b)	What do you mean by coefficient of earthing?	7M		I
		END			

Hall Ticket Number :	

R-17

III B.Tech. II Semester Supplementary Examinations January 2022

Utilization of Electrical Energy

(Electrical and Electronics Engineering) Max. Marks: 70 Time: 3 Hours Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks) Blooms Marks CO Level UNIT-I 1. What is meant by Load equalization? Explain how this is achieved in electrical Industry? 7M CO₁ L3 State and explain the different factors that affect the selection of a motor for b) industrial applications? 7M CO1 L3 2. A DC series motor rated at 220 Volt, takes a current of 20A when running at 1000 rpm. The armature and field resistances are 0.15 Ohm and 0.2 ohm respectively. A resistance of 20 Ohms is connected across the armature terminals of the motor. Determine a) the speed of the motor if the load torque remains constant and the magnetic circuit is assumed unsaturated b) the no load speed of the motor c) the starting torque expressed in terms of torque corresponding to 20A (Without armature shunted) If an external resistance of 5 Ohm is connected in series with the field winding? 14M CO₁ UNIT-II a) Explain the principle of Higher frequency Induction heating? 7M CO2 3. L3 b) A slab of material 2 Cm thick and 150 Sq.cm in area, having relative permittivity 4 and p.f of 0.04 is to be heated using dielectric heating. The power required is 200 Watts and a frequency of 30 MHZ. Determine the voltage required and the current that will flow through the material. If the voltage were to be limited to 600V, What should be the frequency for the same power requirement? 7M CO₂ L3 4. a) What is dielectric heating? How is different from Induction heating? 7M CO₂ L3 Explain the comparison between AC and DC welding? 7M CO₂ L4 UNIT-III Explain the following terms i) Solid Angle ii) Luminous flux iii) Lumen iv) Candle 5. power v) Luminous intensity 14M CO₃ L3 OR a) Describe the laws of illumination and its limitations in actual practice? 6. 7M CO₃ L3 b) Explain the construction, working of Mercury Vapour lamp? 7M CO₃ L3 **UNIT-IV** 7. a) Define tractive effort? Derive the necessary expressions for tractive effort of traction system? 7M CO4 L3 Explain the term specific energy consumption and discuss the factors which affect the specific energy consumption of train operating at a given schedule speed? 7M CO4 14 a) For a trapezoidal speed-time curve of an electric train, derive expression for maximum speed and distance between stops? 7M CO4 L3 The distance between two stations is 1 Km and the schedule speed is 30 Kmph. Station stopping time 20 Sec. Assume braking retardation 3 Kmphps and maximum speed 1.25 times the average speed. Determine the acceleration required to run the service if the speed-time curve is approximated by a trapezoidal curve? 7M CO₄ 14 UNIT-V Briefly explain various types of Electric vehicles? 9. 14M CO₅ L3 Explain the impact of modern drive trains on energy supplies? 10. a) 7M CO₅ L4 Explain the principle and working of Hybrid vehicles? CO₅ L4 ***END***

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous)

III B.Tech I & II Semester **EEE**, **ME**, **ECE**, **CSE** (**R17**) Supplementary End Examinations

English for Competitive Examinations											
H.T. No:-											
Date: 17-02-2022									lax.Marks:70		

\boldsymbol{C}	hoose the correct Answer.			100 X 1 = 100 Marks
Dire				the given alternatives,
cho	ose the one which best e	xpresses meaning	of the given wo	ord.
1.	Abandon			
	a) abscond	b) discontinue	c) neglect	d) condense
2.	Lethargy			
	a) Laxity	b) Impassivity	c) Serenity	d) Listlessness
3.	Diligent			
	a) Intelligent	b) Energetic	c) Modest	d) industrious
4.	False			
	a) defective	b) untrue	c) incorrect	d) inaccurate
5.	Mystique			
	a) Fame b) Reputation	on c) Admirable	Quality d) Pop	ularity
Dire	ection (6-10) In each of	of the following o	questions, choos	e the word opposite in
mea	ning to the given word.			
6.	Start			
	a) close	b) shut	c) end	d) finish
7.	Lend			
	a) hire	b) pawn	c) cheat	d) borrow
8.	Magnify			
	a) Induce	b) Diminish	c) Destroy	d) Shrink
9.	Vanquish			
	a) Surrender	b) Debase	c) Destroy	d) Ruin
10.	Malicious			
	a) Boastful	b) Indifferent	c) Kind	d) Generous
Dire	ections (11-15) In each	of the following	questions, and	Idiomatic expression is
give	n followed by alternati	ves, choose the o	ne which best ex	xpresses the meaning of
the	given idiom.			
11.	To cross swords			
	a) to fight	b) to defend	c) to kill	d) to rob
12	To talk one's head off			

- To talk one's head off
 - a) To talk loudly
- b) To talk in whispers
- c) To talk to oneself
- d) To talk excessively
- 13. To throw down the glove
 - a) To resort to wrong tactics
- b) To give a challenge
- c) To accept defeat
- d) To reject the prize

- 14. To smell a rat
 - a) to detect bad smell
- b) to misunderstand
- c) to suspect a trick or deceit
- d) to see hidden meaning
- To play fast and loose 15.
 - a) To beguile others
- b) To be winning some times and losing at other times
- c) To play with someone's feelings
 - d) To play tricks

	ctions (16-20): In each			
choo	se the one which can be		•	ntences
16.	One who forcibly seizes			
	a) pirate	b) swindler	c) hijacker	d) pilferer
17.	Large scale departure of			
1.0	a) Migration	•	c) Immigration	d) Exodus
18.	One who always runs av	-		1) (1) 1
	a) Escapist	b) Timid	c) Coward	d) Shirker
19.	The short remaining end	d of cigarette		
	a) stump	b) stub	c) rag	d) scrap
20.	One who loves manking			
	a) Anthropologist	-	_	-
	ctions (21-25) (Analogy		ed pair that has	the same relationship
	e original pair of words			
21.	Bog:slumber::sleep		1	1) 1 .
22	a) dream	b) foray	c) marsh	d) night
22.	:horse::board:train		\ '1	1)
22	a) stable	b) shoe	c) ride	d) mount
23.	Poetry:rhyme::philosop	- -	-) 1-: 1	1) 41
24	a) imagery	b) music	c) bi-law	d) theory
24.	Marshal:prisoner::princa) teacher	-	a) doctrina	d) student
25	<i>'</i>	′ -	c) doctrine	d) student
25.	Diamond:baseball::cou		a) grass	d) canach
Diro	a) poker ctions (26-30) In each of	b) jury f the following and	c) grass	d) squash
	rent ways out of which			
26.	a) Business	b) Busness	c) Businies	d)Buseneis
27.	a) Accomodation b) Ac	•	,	,
28.	a)Comissioon	b) Commission		d) Comession
29.	a) Guerila	<i>'</i>	c) Gorilla	d) Goerilla
30.	a) comitment	b) comitment	,	,
	ctions (31-35) In each o	•	,	,
	these sentences, two h	-	•	
	or inappropriate in the	•	•	•
and o	decide on their correctn	ess on the basis of	Italicized	•
31.	I. It is a knaughty proble	em		
31.	II. Suresh is a naughty b	ooy		
	a) if only sentence I is c	orrect		
	b) if only sentence II is	correct		
	c) if both sentences I and	d II correct		
	d) if I as well as II are in	ncorrect, but both co	ould be made corre	ect by interchanging
	the italicized words			
32.	I.A painter is an Artiste			
J2.	II.Raj Kapoor is a skille			
	a) if only sentence I is c	orrect		

b) if only sentence II is correct

- c) if both sentences I and II correct
- d) if I as well as II are incorrect, but both could be made correct by interchanging the italicized words
- 33. I. I think this electric *meter* is faulty.
 - II. I require two *meters* of cloth for this purpose.
 - a) if only sentence I is correct
 - b) if only sentence II is correct
 - c) if both sentences I and II correct
 - d) if I as well as II are incorrect, but both could be made correct by interchanging the italicized words
- 34. I. his manners are *urban*.
 - 4. II.people of *urbane* area are civil in manners.
 - a) if only sentence I is correct
 - b) if only sentence II is correct
 - c) if both sentences I and II correct
 - d) if I as well as II are incorrect, but both could be made correct by interchanging the italicized words
- 35. *I.painting is done on canvass.*
- II.He was canvassing for votes.
 - a) if only sentence I is correct
 - b) if only sentence II is correct
 - c) if both sentences I and II correct
 - d) if I as well as II are incorrect, but both could be made correct by interchanging the italicized words

Directions: (36-40) In each of the following questions, a sentence has been given in Active / Passive voice. Out of the four alternatives suggested select the one which best expresses the same sentence in passive/ Active voice.

- 36. Darjeeling grows tea.
 - a) Tea grows in Darjeeling
- b) Tea is grown in Darjeeling
- c) Let the tea be grown in Darjeeling d) Tea is grown in Darjeeling
- 37. It is time to ring the bell
 - a) it is time to the bells rings
- b) it is being time to ring the bell
- c) it is the time for the bell to ring d) it is
- d) it is time for the bell to be rung
- 38. He will write a letter next week
 - a) A letter would be written by you
 - b) A letter will be written by him next week
 - c)A letter is written by him
 - d)A letter was written by him next week
- 39. They know him
 - a) He is known by them
- b) He is known to them
- c) He is known to them
- d) He was known by them
- 40. My uncle promised me a present.
 - a) A present was promised by my uncle to me
 - b) I was promised a present by my uncle
 - c) I had been promised a present by my uncle
 - d) I was promised by my uncle a present

iron	i the given alternatives.	•		
Life	is an (41) series of	challenges and o	pportunities to be so	eized. You have to plan
for e	xercising the right caree	r choices and	(42) the right opp	ortunities. Planned
(43)	rather than a hasty decis	sion is (44) as far as your c	areer is concerned. You
need	to (45) what o	ccupational group	ps, (46) and	l types of organizations
seem	(47) to you. A	n individual toda	ay has many more	degrees of freedom in
deter	mining his or her futur	e. Few of us	(48) this or take	e full (49) of this
	lom. Most of us let the			
perso	onal life goals and plans	for the future.		
41	a) enticing	b) exciting	c) encharming	d) enhancing
42	a) catching	b) offsetting	c) grabbing	d) conceiving
43	a) delay	b) hindrance	c) wait	d) procrastination
44	a) desirable	b) deciphered	c) inevitable	d) acceptable
45	a) check	b) classify	c) divide	d) analyze
46	a) specifications	b) limitations	c) qualifications	d) identification
47	a) worthy	b) needful	c) suitable	d) necessary
48	a) reprimand	b) realize	c) recognize	d) remember
49	a) advantage	b) enjoyment	c) privileges	d) compensation
50	a) determined	b) swayed	c) deprived	d) led
Dire	ction (51-55): In the q	uestions given b	pelow, some of the	sentences have errors
and	some have none. Find	out which part	of a sentence has a	nn error. If there is no
mist	ake, the answer is 'No o	error'.		
51.	He took to (a)/ reading	Times (b) / for be	etter knowledge of fa	acts. (c) / No error (d)
52.	I am not wealthy,(a)/so	I cannot afford (b)/to buy a expensiv	e car(c) no error(d)
53.	Both the civilians (a)/ an	nd army men (b) /	joined the first world	d war. (c) / No error (d)
54.	A person I met (a) / in	the theatre (b) / w	as the playwright hi	mself. (c) / No error (d)
55.	To perform this experin	ment, (a) / drop li	ttle sugar (b) / into a	glass of water. (c) / No
33.	error (d)			
Dire	ctions (56-60) pick out	the most effective	ve word from the gi	ven words to fill in the
blan	ks to make the sentence	e meaningfully c	omplete.	
56	The conference was suc	ccessful, your styl	le of presentation wa	ıs everyone liked
	a) valuable	b) difficult	c) conductive	d) wonderful
57	He has people	le visiting him at	t his house because	he fears it will cause
31	discomfort to neighbor	S.		
	a) curtailed	b) requested	c) stopped	d) warned
58	He is too to be de	ceived easily		
	a) strong	b) modern	c) kind	d) intelligent
59	Successful people are g	genuinely very eff	icient in their t	ask.
	a) making	b) attaining	c) accomplishing	d) achieving
60	You must you	r career with all	seriousness.	
	a) direct	b) pursue	c) complete	d) manage

(Directions 41-50): Choose the most appropriate word in the context of the passage,

each sentence, some phrases are given which can substitute the italicized part of the sentence. Find out the phrase which can correctly substitute that part of the sentence. If sentence is correct as if is, the answer is' No correction is required" or No improvement. The police broke away the meeting as it turned violent. 61 b) Broke off a) Broke up c) broke through d) No improvement They are working for the upliftment of their village. 62 a) uplift of b) uplifting of c) uplifting d) No improvement My mother asked me when would I have a glass of milk. 63 b) I would d) No improvement a) I will c) I shall The teacher asked, "why you are late?" 64 a) why you were late b) why late you are c) why are you late d) No correction required The train left before we reached the station. 65 b) would have left d) No improvement a) had left c) has had left Directions (66-70): Rearrange these parts so as to form a complete meaningful sentence and then choose the correct combination. 66 (1) We (p) agreed with (Q) the manner in which you said it ® but we objected to (s) what you said a) PQRS b) PSRQ c) RPOS d) SOPR Why do people 67 (P) despite a desire (Q) to quit and despite ® continue smoking (S) the known health hazards? a) PQSR b) RPQS c) QSPR d) SRPQ 68 The man (P) is generally the one (Q) Who can work very hard ® when he must work (S) who can play most heartily when he has the chance of playing b) QRPS c) ORSP d) SPOR a) PSQR (1)If you are serious about 69 (P)vocabulary building not a hobby (Q)you will have to make ® an absorbing interest, (S)increasing your vocabulary)

c) ROPS

d) SOPR

(6) or even an obsession.

b) PRQS

a) PQSR

Directions (61-65):: in each question, a part of sentence is printed in italics. Bellow

R17 EFCE Supplementary

Directions (81-85) Find the suitable word pair for the following.									
81	Body and								
	a) Fruit	b) Soul	c) Mind	d) Juice					
82	Cause and								
	a) Big	b) Small	c) Smart	d) Effect					
83	Sweet and								
	a) Bitter	b) Tasty	c) Yummy	d) Sour					
84	Past and								
	a) Tomorrow	b) Future	c) Yesterday	d) None					
85	Moon and								
	a) Stars	b) Earth	· · · · · · · · · · · · · · · · · · ·	·					
Directions(86-90): Choose the nearest confusing word for the following words									
86	Advice:								
	a) Adverse	b) Advocate	c) Advise	d) Admire					
87	Coarse:								
	a) Curse	b) Course	c) Purse	d) Nurse					
88	Affect								
	a) Effort	b) Effect	c) Efficient	d) Eminent					
89	Lose:			40					
	a) Lust	b) Loose	c) Lost	d) Lamp					
90	Yoke:	1 >	`	1) 2 5111					
	a) Yank	h) Bulk	c) Yolk	d) Milk					

Directions (91-100): Read the following passage carefully and answer the questions given below it.

The Supreme Court Judgement which abolishes punishment for attempted suicide will prove to be a milestone in India's judicial history. This is so because the judgement will benefit tens of thousands of miserable souls who are prosecuted for failing to kill themselves. Around 50,000 suicides are reported in India every year. Considering that three suicide bids take place for every successful one, we can safely assume that the failed suicides amount to 1, 50,000 a year in India.

These 1,50,000 individuals could be sentenced to one year in jail under Section 309 of the Indian penal Code Which the Supreme Court Judgement has effected as being unconstitutional. Quite rightly, the judgment said that Section punishment for a troubled individual whose deep unhappiness had caused him to try and end his life. Yet, time and again,, the Indian police had launched these prosecutions. The Supreme Court Judgment has overturned a 1987 decision by a division bench which had upheld the constitution Validity of the Indian law against Suicide. The judgment had ruled that the right to life implied in the Indian Constitution does not include the right to die..

- Which judgement of the supreme Court will be a milestone in India's Judicial History?
 - a) The one abolishing Suicide
 - b) The one abetting suicide
 - c) The one doing away with punishment for attempted suicide
 - d) The one condoning suicide

a) soundness

92	Why is the judgement hailed as a milestone? a) because it will bring relief all around b) because it will lessen the work of the police a) because it is very belonged							
	c) because it is very balanced							
93	d) because it will bring relief to all those being punished for attempting suicide What punishment according to the passage was envisaged for unsuccessful suicide attempts, under the Indian law?							
	a) a fine of thousand ru	pees b) d	eath sentence					
	c) one year in jail	•	xtreme torture					
94.	The judgement has tern							
	a) it takes away the rig		•	hment of a tortured soul				
	c) it is very lenient) it provides for false	accusations				
95.	What has the Indian po		_	. 1.0				
	a) it has attempted to punish those guilty of trying to end their life							
	b) it has punished those who have committed suicide c) it has imposed hardships on citizens							
	•	c) it has imposed hardships on citizens d) it has violated the Constitution						
96.	•	d) it has violated the Constitution The Supreme Court in deement						
<i>7</i> 0.	The Supreme Court judgement a) has come up with the decision on its own							
	b) has reversed an earlier judgement dealing with suicide							
	c) is a continuation of the 1987 decision							
	d) is a unique one							
97.	In 1987, a division bench had							
	a) rejected the Indian law against suicide							
	b) changed the Indian law against suicide							
	c) supported the Indian law against Suicide							
	d) given a new meaning to the suicide law							
98.	The 1987 judgement had reasoned that							
	a) a man was free to die							
	b) the constitution did not provide for Suicide							
	c) right to die in Indian Constitution was upheld							
	d) the right to life in Indian Constitution had no implication of right to die							
99.	The word 'effaced' in the passage means							
	a) included	b) deleted	c) devised	d) dismissed				
100	The word 'validity' in the passage means							
	a) soundness	b) remainder	c) invocation	d) legality				

Hall Ticket Number :						

R-17

III B.Tech. II Semester Supplementary Examinations January 2022

Microprocessors and Microcontrollers

(Electrical and Electronics Engineering)

Max. Marks: 70 Time: 3 Hours Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

	,	******	, 0	ionito j	
			Marks	со	Blooms Level
		UNIT-I			
1.		Explain in detail about internal hardware architecture of 8086 micro processor			
		with a neat diagram	14M	CO1	L2
		OR			
2.	a)	Explain various Addressing modes of 8086 microprocessor.	8M	CO1	L2
	b)	Write an 8086 ALP to find the sum of numbers in the array of 10 elements.	6M	CO1	L4
_		UNIT-II			
3.	a)	Describe the interrupts of 8086 and its types with service routine	7M	CO2	L1
	b)	Explain the architecture of 8255PPI its mode of operations	7M	CO2	L2
		OR			
4.	a)	Discuss about I/O mapped I/O and memory mapped I/O	7M	CO2	L4
	b)	Explain in detail about 8259 PIC architecture	7M	CO2	L2
		UNIT-III			
5.	a)	Discuss about 8251 USART architecture with neat sketch	7M	CO3	L4
	b)	Explain the different data transfer schemes in detail.	7M	CO3	L2
		OR			
6.	a)	Discuss about TTL to RS232C and RS232C to TTL conversion	7M	CO3	L4
	b)	Explain about necessity of communication interfaces and 8251 interfacing	7M	CO3	L2
		UNIT-IV			
7.	a)	Draw the pin Diagram of 8051 and describe the pins	7M	CO4	L1
	b)	Discuss the various type of addressing modes with suitable example in 8051			
		micro controller	7M	CO4	L4
		OR			
8.	a)	Write an 8051 assembly language program to multiply the given number 48H	71.4		1.4
	LV	and 30H		CO4	
	b)	Explain about Timers and serial communication features of 8051.	7M	CO4	L2
9.		UNIT-V Draw the diagram of ARM architecture and explain the function of each block			
9.		Draw the diagram of ARM architecture and explain the function of each block along with different features in it.	14M	CO5	L2
		OR		000	
10.	a)	Explain the Pin functions of Arduino with a neat block diagram	7M	CO5	L2
10.	b)	Explain about PWM and ADC in Arduino	7M		L2
	IJ)	***END***	1 171	UU5	LZ
		LIND			