11. B). A body kept in air with temperature 25°C cools from 140°C to 80°C in 20 minutes. Find

12. A). Solve $(D^2 + 4)y = Tan2x$ by method of variation of parameter. 10M

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12. B). Solve
$$x^3 \left(\frac{d^3 y}{dx^3} \right) + 3x^2 \left(\frac{d^2 y}{dx^2} \right) + x \left(\frac{dy}{dx} \right) + 8y = 65 \cos(\log x)$$

(P.T.O..)

- 13. A). Change of order of integration and hence evaluate the double integral $\int_0^1 \int_{x^2}^{2-x} xy dy dx$ 10M
- 13. B). Find the volume of the tetrahedron bounded by the plane $\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1$ and the 10M coordinate planes by triple integral.
- 14. A). i) Find the directional derivative of $xyz^2 + xz$ at (1,1,1) in the direction of normal to the surface $3xy^2 + y = z$ at (0,1,1).
 - ii) Show that $(x^2 yz)\overline{i} + (y^2 zx)\overline{j} + (z^2 xy)\overline{k}$ is irrotational and find its scalar potential.

OR

- 14. B). Prove that $\operatorname{curl}(\overline{a} \times \overline{b}) = \overline{a} \operatorname{div} \overline{b} \overline{b} \operatorname{div} \overline{a} + (\overline{b} \cdot \nabla) \overline{a} (\overline{a} \cdot \nabla) \overline{b}$.
- 15. A). Find the work done by $\overline{F} = (2x y z)\overline{i} + (x + y z)\overline{j} + (3x 2y 5z)\overline{k}$ along a curve C 10M in the xy-plane given by $x^2 + y^2 = 4, z = 0$.

OR

15. B). Verify Green's theorem for $\overline{F} = (x^2 + y^2)\overline{i} - 2yx\overline{j}$ taken around the rectangle bounded by the lines x = a, x = -a, y = 0, y = b.

What is Electro chemical corrosion? Explain the mechanism of Evolution of H2 and

OR i) Explain the various types of electronic transitions possible in UV-Visible Spectroscopy.

13. A). Explain the Fundamental vibrations of IR spectra and give its applications.

ii) List the applications of UV-Visible Spectroscopy.

10M

10M

6M

4M

(P.T.O..)

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12. B).

Absorption of O₂ in it.

sludges?	
OR	
14. B). What is Sterilization of Water? Explain the concept of breakpoint of chlorination and write its significance.	10M
15. A). i) Identify the optical isomerism and calculate the number of stereoisomers for Glyceraldehyde.	4M
ii) Define the following with examples (a) Enantiomers (b) Diasteriomers	6M
OR	OIVI
	6M
ii) Write the structure, preparation and uses of paracetamol.	4M



loop.

CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)
B.Tech II Semester Supplementary Examinations February-2024

	Course Name: APPLI		
	D 4 00 00 0004 EBI	(Common for ECE, CSE, IT & CSD)	Manles, 70
-	Date: 20.02.2024 FN	Time: 3 hours Max. (Note: Assume suitable data if necessary)	Marks: 70
		PART-A	
		Answer all TEN questions (Compulsory)	40.0.00
		Each question carries TWO marks.	10x2=20M
1.	Define Matter waves.		2 M
2.	Define Fermi-Dirac Dist	ribution function.	2 M
3.	Define Fermi energy.		2 M
4.	Define Hall Effect.		2 M
5.	What is meant by forward	rd and reverse bias?	2 M
6.	Write about Zener break	down.	2 M
7.	Define the terms Absorp	otion and Stimulated emission.	2 M
8.	Explain the parts of Opti	ical fibers.	2 M
9.	Define the terms dipole	moment and dielectric constant.	2 M
10.	What is meant by Meiss		2 M
	Angway the following E	PART-B	5x10=50M
	Answer the lonowing. E	ach question carries TEN Marks.	3XIU-3UNI
11.4	A). i) Explain the physic	cal significance of wave function.	3M
	ii) Derive the Schroo	linger's time independent wave equation.	7M
		OR	
11.	B). Write the difference distribution function	ces between Maxwell-Boltzmann, Bose-Einstein and Fermi-ls.	Dirac 10M
12.	A). Calculate the carrier	concentration of electrons in a n-type semiconductor.	10M
		OR	
12.	B). i) Explain the Law o	f mass action.	4M
	ii) Distinguish betwe	een Drift current and Diffusion current.	6M
13.	A). Explain the construc	tion, working and V-I characteristics of a PN junction diode. OR	10M
13.	B). i) Explain the radiati	ive and non-radiative recombination.	2M
	ii) Explain the const	ruction and working of LED.	8M
14.	A). Explain the construc	tion and working of He- Ne laser and write its applications. OR	10M
14.	B). Define and derive ar	n expression for Numerical aperture and Acceptance angle.	10M
15.	,	n expression for Internal field of a dielectric material.	10M
		OR	
15.	B). Explain Domain the	eory of ferromagnetic materials and also explain it with Hysto	eresis 10M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

	B.Tech II Semester Supplementary Examinations February-2 e: PROGRAMMING FOR PROBLEM SOLVING (Common for CE & ME)		- 0
Date: 22.02.202	24 FN Time: 3 hours (Note: Assume suitable data if necessary)	Max.Marks	<u>s: 70</u>
	PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=	20M
1. Compare pseu	docode with an algorithm.		2 M
2. What is the rel	lational Operator in C?		2 M
3. What are the d	different ways of initializing array?		2 M
4. Show the gene	eral form of if – else – if statement.		2 M
5. What is the rol	le of strrev() function?		2 M
6. Define functio	on. Write the syntax of user defined functions.		2 M
7. Define Malloc	c () and write the syntax.		2 M
8. How are mem	bers of a union accessed?		2 M
9. Define sorting	g and explain why it is important.		2 M
10. Define Comm	and Line Parameters.		2 M
Answer the fol	PART-B llowing. Each question carries TEN Marks.	5x10=	50M
Answer the for	nowing. Each question carries TEN marks.	JA10-	<u> </u>
•	e following operators in C language with example.		10M
,	twise operators crement operators.		
· ·	gical operators		
	OR		
· · ·	Flowchart? Draw flow chart to find Sum of N numbers.		5M
11) What is	s variable? Give the rules for variable declaration.		5M
12. A). What is an initialized?	n array? How are a single dimension and two dimension arrays?	declared and	10M
	OR		
12. B). Describe the	he Decision making statements and looping statements in C Program	mming.	10M
	tring manipulation library functions with their syntaxes. Write a ether a string is palindrome or not.	program to	10M
	OR		
13. B). Explain the	e storage classes with suitable examples.	(P.T.O)	10M

Write a program in C to find the sum and mean of all elements in an array using pointers.	10M
OR	
Define Structure. Describe how to declare, initialize, and access members of Structure with a programming example.	10M
Write a C program to read a data file containing integers. Find the largest and smallest integers and display them.	10M
OR	
Explain Bubble sort with an example	10M
	OR Define Structure. Describe how to declare, initialize, and access members of Structure with a programming example. Write a C program to read a data file containing integers. Find the largest and smallest integers and display them. OR



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech II Semester Supplementary Examinations February-2024

B.Tech II Semester Supplementary Examinations February-2024 Course Name: DATA STRUCTURES & ALGORITHMS					
1	(Common for EEE, ECE, CSE, IT, CSC, CSM, CSD, AID & AIM) Date: 22.02.2024 FN Time: 3 hours Max.Marks: 70				
-	Date	(Note: Assume suitable data if necessary)			
		PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=2	0M	
1.	Hov	w does a linked list overcome the problems of arrays?		2 M	
2.	Wh	at do you mean by nonlinear data structure?		2 M	
3.	Out	line the applications of stack.		2 M	
4.	Hov	w can a circular queue overcome the limitations of a linear queue?		2 M	
5.	Wh	at is a threaded binary tree?		2 M	
6.	Hov	w binary tree is represented using an array?		2 M	
7.	Def	fine complete graph.		2 M	
8.	Wh	at do you mean by collision in hashing?		2 M	
9.	Def	fine divide and conquer strategy.		2 M	
10.	Wr	ite the disadvantage of brute force pattern matching algorithm.		2 M	
	Ans	PART-B wer the following. Each question carries TEN Marks.	5x10=	50M	
11		With neat sketch elaborate insertion at beginning and last operations on single lin OR	nked list.	10M	
11.	B).	Perform insertion and deletion operations of a circular linked list with pseudocoo	de.	10M	
12.	12. A). Elaborate basic operations associated with stack. Translate following arithmetic infi expression into postfix by using stack: $(b+c) + (b/d) * a + z * u$		netic infix	10M	
		OR	_	103.5	
12.	В).	Define queue data structure. Build the procedure to perform dequeue and operations on circular queue data structure with neat sketch.	d enqueue	10M ,	
13.	. A).	Illustrate AVL Tree. Create AVL Tree for the following sequence of numbers: 10, 8, 15, 32, 46, 11, 48	50, 20, 60,	10M	
		OR			
13	. B).	Illustrate binary search tree. Explain tree traversal techniques with an example.		10M	

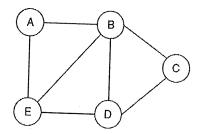
(P.T.O..)

14. A). Build the hash table using various collision resolution techniques 50,700,76,85,92,73 and 101 and hash table Size 7.

OR

14. B). Design the pseudo code for DFS and BFS. Apply DFS and BFS on following graph.

10M



15. A). Rearrange the following numbers in ascending order using Heap sort. 10, 6, 3, 7, 17, 26, 56, 32, 72

10M

OR

15. B). Search the pattern " a a b a b" in following text using Knuth-Morris Pratt Algorithm 10M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech II Semester Supplementary Examinations February-2024

They have been living		Course Name: ENGLISH				
(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2=20M 1. Fill in the blanks with suitable prepositions. They have been living Mumbai ten years. 2. Choose the appropriate word from the given brackets. a) Can I give some (advise/advice)? b) He's been having treatment for two months now without any (improvement/improved) 3. Find the suitable articles to fill in the blanks. a) The Secretary and (the/NA) president attends the board meeting. b) I met (a/an) European in Sunday Market last week. 4. Punctuate the following sentence correctly. whos the indian teams captain 5. Choose the right answer from the given brackets. a) The camel and the donkey luggage. (carry/carries) b) One should learn to master (one's self/ oneself) 6. Write two right words by using each of the following affixes. a) hyper- b) trans- c)ment d)tion 7. Find out the misplaced modifiers and rewrite with meaningful sentence. a) We glued together the vase we broke quietly. b) We had a pizza after the movie that was delicious. 8. Write antonyms to the following words. a) intentional b) Crooked 9. Define redundancies with examples. 2 M a) intentional b) Crooked 9. Define redundancies with examples. 2 M a) the full form of the following abbreviations. a) esp b) VAT PART-B Answer the following. Each question carries TEN Marks. 5x10=50M 11.A). What does the author (William Hazlitt) say about despising people? what justification does he provide for his advice? OR 11.B). i) Fill in the blanks with suitable prepositions 1 have seen you (for/from) ages. I am tired (of/on) waiting (for/about) you. You can stay (with/for) me tonight. My birthday is (on/in) 29th February. ii) Identify the clauses of the following sentences (Simple, Compound and Complex). a) You may sit wherever you like. b) As she was not there, I spoke to her sister. c) Will you wait till I return? d) I fear that I shall fail.		T				
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c) Will you wait till I return?d) I fear that I shall fail.		•	•	• ,		
d) I fear that I shall fail.		•		ister.		
e) I do not know what he wants.						

12. A).	what is the mood of the poem?		
	OR		
12. B).	"How I Became A Public Speaker" describe the steps of George Bernard Shah's life.	10M	
13. A).			
	a) The scissors missing. (is/are)	5M	
	b) His wages _100 rupees a day. (is/are)		
	c) Murali or Nithin must do _ own work. (His/their)		
	d) Each of them a successful politician. (Make/makes)		
	e) The mango, as well as Apple, sweet. (is/are)		
	ii) Write principles of good writing.	5M	
12 D)	OR		
13. B).	What did Seneca say about the importance of time? Write an essay on it.	10M	
14. A).	Write Essay on Advantages and Disadvantages of Online Classes.	10M	
14 D)	OR		
14. B).	Write the summary of Muhammad Yunus.	10M	
15. A).	Write Summary and Analysis of George Orwell's 'Politics and the English Language'.	10M	
15. B).	OR		
13. bj.	Summarize the following passage with relevant title.	10M	
	One night a holy man, Abu Ben Adhem by name, suddenly woke up from a deep dream of peace and saw in his moonlit room an angel writing something in a book of gold. He did not feel at all frightened. The peaceful face of the angel made Abu bold and he said to the angel, "What are you writing?" The angel looked up and replied in a kind and sweet tone, "I am taking down the names of those who love God." "And is my name one among them?" Asked Abu. But the angel replied, "No, it is not." "I pray thee then," said Abu, "To write me down as one who loves his fellowmen." The Angel wrote and vanished. The next night the angel came again with a great light which awaked Abu Ben Adhem: and he showed Abu the names of those who had been blessed by the love of God. And behold!		
	the name of Abu was at the top of the list.		



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

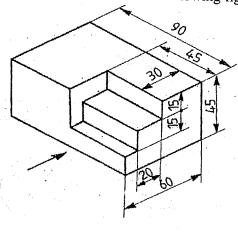
	(UGC AUTONOMOUS)	
	B.Tech II Semester Supplementary Examinations February Course Name: ENGINEERING DRAWING	y- 2024
•	(Common for ECE, CSE, IT & CSD)	
]	Date: 24.02.2024 FN Time: 3 hours	Max.Marks: 60
	(Note: Assume suitable data if necessary)	
	PART-A	
	Answer all TEN questions (Compulsory) Each question carries ONE mark.	10x1=10M
1.	Write systems used in placing of dimensions.	1 M
2.	Show the procedure of how to divide a line into number of equal parts?	1 M
3.	A Point A is 25 mm above the H.P.and 30 mm behind the V.P. Draw its project	etions. 1 M
4.	Define a Plane in Projection of Planes.	1 M
5.	What are right solids?	1 M
6.	What is the difference between the prism and pyramid?	1 M
7.	Write the relation between isometric length and true length.	1 M
8.	Define isometric scale.	1 M
9.	Draw the isometric view of a circular lamina of diameter 50 mm	1 M
10.	Draw the isometric view of a square with 40mm side?	1 M
	PART-B	
2	Answer the following. Each question carries TEN Marks.	5x10=50M
11.A). Draw a hyperbola with the distance of the focus from the directrix at 50 (Eccentricity method).	Omm and e=3/2 10M
	OR	
11. E	B). Draw a cycloid of a circle of diameter 40 mm for one revolution. Also, dra a normal to the curve at a point 25 mm above the base line.	w a tangent and 10M
12. <i>A</i>	A). An 75 mm long line AB is inclined at 30° to the H.P. and 45° to the V.P. mm above the H.P. and lying in the V.P. Draw the projections of the line.	The end A is 15 10M
	OR	
12. E	3). A hexagonal plane of side 30 mm has a corner in the V.P. The surface inclined at 45° to the V.P. and perpendicular to the H.P. Draw its projection the diagonal through the corner in the V.P. is parallel to the H.P.	
13. A	A). A square pyramid of base side 40 mm and axis 60 mm is resting on its b Draw its projections when (a) a side of the base is parallel to the V.P., (base is inclined at 30° to the V.P.	
	OR	
13. E	3). A pentagonal prism of base edge 30 mm and axis 60 mm rests on an edge the H.P. Its axis is parallel to V.P. and inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45° to the H.P. Draw its parallel to V.P. and Inclined at 45°	

14. A). Draw the isometric projection of the frustum of a cone of base diameter 60 mm, top diameter 30 mm and height 55 mm.

OR

- 14. B). Draw the isometric view of a cylinder of base diameter 50 mm and axis 60 mm. The axis of the cylinder is perpendicular to the (a) H.P., (b) V.P.
- 15. A). Draw the front view, top view and side view for the following fig.

10M



OR

15. B). The front and side views of an angle plate are shown in Fig. Draw its isometric view.

10M

