Hall Ticket Number :
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#### Code: 20AC15T

I B.Tech. I Semester Supplementary Examinations July 2023

## **Communicative English**

(Common to CE, ME, CSE, AI&DS, CSE(AI) and CSE(DS) )

Max. Marks: 70

crimes.

#### \*\*\*\*\*

Time: 3 Hours

**R-20** 

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)

- 2. In Part-A, each question carries Two marks.
- 3. Answer ALL the questions in Part-A and Part-B

## PART-A

## (Compulsory question)

1.	Answer ALL the following short answer questions $(5 \times 2 = 10M)$	СО	Blooms Level
a)	What is young boy's attitude towards his new school?	CO1	L2
b)	What are the various words the poet uses to describe the sound of the brook?	CO1	L2
c)	How does the doctor stop the conspirators from killing the prince, Dimitri? What is the irony behind the trick?	CO1	L2
d)	Explain microcredit system introduced by Muhammad Yunus.	CO1	L2
e)	Write a few words about Darpana Academy of Performing Arts started by Mrinalini Sarabhai.	CO1	L2

## PART-B

## Answer *five* questions by choosing one question from each unit ( $5 \times 12 = 60$ Marks)

Blooms						
			Marks	CO	Level	
		UNIT–I				
2.		What is the author's attitude towards how one should behave with other people?				
		Do you agree with his reasoning? Give reasons for your answer?	12M	CO1	L4	
		OR				
3.	a)	Change the following statements into questions.				
		i. The prince decided to invite his enemies for dinner.				
		ii. My sister submitted the assignment yesterday.				
		<ul><li>iii. She comes from Madrid.</li><li>iv. I can have a smart phone for my birthday.</li></ul>				
		<ul><li>v. I can have a smart phone for my birthday.</li><li>v. It is raining now in our village.</li></ul>				
		vi. They arrived at 6 O' clock.	6M	CO3	L4	
	b)	Identify the parts of speech of the underlined words in the following sentences.				
	,	i. The soldiers were rewarded for their bravery.				
		ii. The service in the bank was really quick.				
		iii. Peter happily eats fresh oranges at home.	6M	CO3	L4	
		UNIT–II				
4.		Who is the speaker of the poem, "The Brook"? What is the technique of				
		investigating humanqualities into non-living things called? Why do you think the				
		poet has chosen to use this technique here? How does it contribute to the effect				
		of the poem?	12M	CO1	L2	
		OR				
5.		Develop the following hints into a meaningful paragraph:				
		Cyber crime is criminal act takes place over internet - a great threat to our				
		society and nation - hackers have various motives of crime - identity theft, cyber				
		stalking, creating and sending malware like viruses for destroying systems or				
		steal data - severe loss to victim - measures should be taken to avoid such				

12M CO1

7M CO4

12M CO3

L3

L4

L4

L4

L4

L3

## UNIT–III

6.	Discuss the significance of the title 'The Death Trap'?
0.	

#### OR

- 7. a) Rearrange each group of jumbled sentences below so as to have well-written paragraphs.
  - i. When finally they made their first ascent from the desert tract beside the sea, to be borne aloft for almost a whole minute, a great change was effected in the nation's attitude.
  - ii. Accordingly, the brothers, each a man of mettle and each the perfect complement to the other, set out with their ingenious device, but with their very little capital.
  - iii. Those who had formerly been skeptical and had prophesied that the wright machine would remain forever stationary on the earth, were loudest in their praise of the pioneers of the air.
  - iv. Men laughed at the Wright Brothers, mechanics from Dayton, saying that a practicable flying machine would never be built and counseled them to stay on the ground.
  - v. The wrights, however, refused to accept this advice or to alter their plans, for they were certain that their machine embodied the principles of aviation and they were confident of their success.
  - b) Fill in blanks in the sentences below using appropriate form of the verb in brackets.
    - i. Where \_\_\_\_\_ (do) you stay last night?
    - ii. I \_\_\_\_\_ (just submit) my assignment.
    - iii. The student's \_\_\_\_\_ (play) games since early morning.
    - iv. I met with an accident while I \_\_\_\_\_ (go) to college.
    - v. The teacher \_\_\_\_\_\_ (start) the lesson before she entered the class room. 5M CO4

### UNIT-IV

 Discuss the role of Muhammad Yunus in eradicating the poverty of women in Bangladesh. .
 12M CO2

#### OR

 Prepare an analytical essay on the topic, "Influence of online games on young people" 12M CO4

## UNIT–V

- 10. Correct the following sentences and rewrite them.
  - i. I don't have the informations that you wanted.
  - ii. Where you did go last night? I looked everywhere for you.
  - iii. My mother has to go to the hospital to have an operation on her leg.
  - iv. I hate get up early in the morning, especially when it's raining.
  - v. The boy over there looks exactly as my younger brother.
  - vi. Can you please sponsor the event to be organize on our campus in the next month?
  - vii. I am knowing all the grammar, but it's difficult to remember.
  - viii. I'm work in a restaurant at the moment but I'd like have a more interesting job.
  - ix. I advised my friend to prepared well for the online entrance test.
  - x. Fresh vegetables are said to being very good for our health.
  - xi. People in Italy must to carry their identity cards at all times.
  - xii. Last night, we congratulated our neighbours for the birth of their daughter.

#### OR

11. Narrate the story of Mrinalini Sarabhai and describe how she used her dance performances to fight against social evils.

С	ode: 20A312T	
	I B.Tech. I Semester Supplementary Examinations July 2023	
	Engineering Drawing	
	(Common to CE, EEE and ECE)	
Ν	Nax. Marks: 70 Time: 3 Hou	rs
	Answer five full questions by choosing one question from each unit (5 x 14 = 70 Marks)	
	*****	
		Marks
	UNIT–I	
1.	Construct a parabola when the distance between the focus and directrix is 50mm. Also draw the tangent and normal to any point on	
	the curve.	14M
	OR	
2.	Construct an epicycloid of a circle 60 mm diameter which rolls outside of another circle of 120 mm diameter for one revolution. Draw tangent	
	and normal to any point on the curve.	14M
	UNIT–II	

3. A line NS, 80mm long has its end N, 10mm above the HP and 15mm in front of the VP. The other end S is 65mm above the HP and 50mm in front of the VP. Draw the projections of the line and find its true inclinations with the HP and VP.

# OR

- 4. Draw the projections of the following points on the same ground line, keeping the projections 30mm apart.
  - i. A, in the H.P & 30mm, behind the V.P
  - ii. B, 30mm above the H.P & 15mm in front of the V.P.
  - iii. C, in the V.P & 50mm above the H.P.
  - iv. D, 30mm below the H.P & 35mm behind the V.P.
  - v. E, 25mm above the H.P & 65mm behind the V.P.
  - vi. F, 45mm below the H.P & 35mm in front of the V.P.
  - vii. G, in both the H.P & the V.P.

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# UNIT-III

 A regular pentagon of 25mm side has one side on the ground. Its plane is inclined at 45<sup>0</sup> to the HP and perpendicular to the VP. Draw its projections

14M

14M

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6. A semi-circular lamina of 64mm diameter has its straight edge in VP and inclined at an angle of 45<sup>o</sup> to HP. The surface of the lamina makes an angle of 30<sup>o</sup> with VP. Draw the projections

# UNIT–IV

 A hexagonal pyramid, base 25mm side and axis 50mm long, has an edge of its base on the ground. Its axis inclined 30° to the ground and parallel to the V.P. Draw its projections

## OR

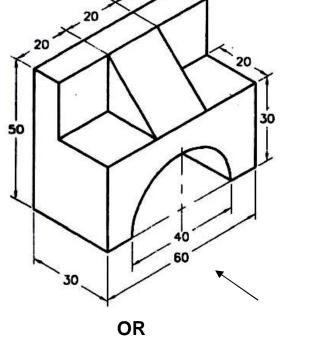
8. Draw the projections of a pentagonal prism, base 25mm side and axis 50mm long, resting on one of its rectangular faces on the H.P with the axis inclined 45° to the V.P.

# UNIT-V

9. Draw the top view, front view and left side view for the object shown below.

Draw the isometric view of hexagonal prism, with side of base 25mm and axis 60mm long. The prism is resting on its base on HP, with an edge of the base parallel to VP.

\*\*\* End \*\*\*



14M

14M

14M

14M

H	lall	Ticket Number :		1	
Co	de	: 20A511T	R-20		
No	te:	I B.Tech. I Semester Supplementary Examinations July 20 <b>Problem Solving through C Programming</b> (Common to All Branches) ax. Marks: 70 ******** 1. Question Paper consists of two parts ( <b>Part-A</b> and <b>Part-B</b> ) 2. In Part-A, each question carries <b>Two marks.</b>	023 Time: 3 He	ours	
		3. Answer ALL the questions in Part-A and Part-B			
		PART-A			
_	_	(Compulsory question)			
		swer the following ( 5 X 2 = 10M )	CO B		
Ċ		mmarize the basic Datatypes supported in C Programming.	CO1 L2	2	
'		ferentiate break and continue statements.	CO2 L2	2	
C)	Int	erpret the declaration of a header file with $< >$ and " ".	CO3 L2	2	
d)	De	fine Pointer. CO4	L2		
e)	Dif	ferentiate text files and binary files.	CO5 L3	3	
		PART-B			
An	SWe	er five questions by choosing one question from each unit (5 x 12 = 60 I		~~	
		UNIT-I	Marks	CO	l
			12M	1	1
		Discuss the types of operators in C programming.	I ZIVI	1	I
	<b>c</b> )	OR Define a variable and list the rules for variable dedoration	6M	4	1
-	a)	Define a variable and list the rules for variable declaration.	6M	1	
I	b)	Differentiate global and local variables with examples.	6M	1	
. 6	a)	Model a C program to produce the Transpose of a give		0	
	. \	matrix.	6M	2	
	D)	Apply selection sort on the following list of elements		0	
			6M	2	
		30, 60, 80, 10, 50, 90, 70, 20	om		
I		OR			
	a)			2	

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		UNIT–III		
6.	a)	Analyze the storage classes in C.	8M	3 L4
	b)	Describe the built-in functions strcmp(), strcpy().	4M	3 L2
		OR		
7.	a)	Model a C program to find the GCD of two integers using	I	
		functions.	6M	3 L5
	b)	Describe actual and formal parameters in C programming.	6M	3 L2
		UNIT–IV		
8.	a)	Differentiate call by value and call by reference.	6M	4 L3
	b)	Develop a C program using the predefined functions malloc,		
		and realloc.	6M	4 L6
		OR		
9.	a)	Differentiate static and dynamic memory allocation.	4M	4 L2
	b)	Apply bubble Sort over the list of integers using pointers	8M	4 L3
		UNIT–V		
10.	a)	Demonstrate the accessing members of a structure using	l	
		variable.	6M	5 L3
	b)	Describe the file opening modes of operation.	6M	5 L2
		OR		
11.	a)	Develop a c program to read and write data into a text file.	6M	5 L5
	b)	Demonstrate the passing array of structures to functions.	6M	5 L4
		***END***		

Hall Ticket Number :			
Code: 20AC11T	R-20		
I B.Tech. I Semester Supplementary Examinations July 202	23		
Algebra and Calculus			
(Common to All Branches) Max. Marks: 70	ime: 3 Hou	Jrs	
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Note: 1. Question Paper consists of two parts ( <b>Part-A</b> and <b>Part-B</b> ) 2. In Part-A, each question carries <b>Two mark.</b>			
3. Answer ALL the questions in <b>Part-A</b> and <b>Part-B</b>			
PART-A			
(Compulsory question)			
Answer ALL the following short answer questions $(5 \times 2 = 10 \text{ M})$	)	CO	BL
The rank of the matrix $\begin{bmatrix} 2 & -3 & 4 \\ 3 & -2 & 3 \end{bmatrix}$ is		1	3
$\begin{vmatrix} 2 & -3 & 4 \\ 3 & -2 & 3 \end{vmatrix}$ is			
Using $ a $ is in theorem, the value of $\frac{1}{a^4} = \frac{1}{a^3} = \frac{5}{a^2} = \frac{1}{a^2}$	1	2	3
Cayley-H <sub>2</sub> imilto $A^{+} = A^{-} = A^{-} = A^{-}$	4 + 2/ 4		
when $A = \begin{bmatrix} 1 & 2 \\ 4 & 2 \end{bmatrix}$ is			
Expand $= \begin{bmatrix} 1 \\ 4 \end{bmatrix}_{\text{By}}$ aclaurin's series		3	2
Evaluate $\iint_{x \ge y \le dx dy}^{y \ \text{Maclaurin's series}}$ angle $0 \le x \le \frac{1}{2}$ and $1 \le y \le \frac{1}{2}$ Find the value of $\int_{x \ge y \le dx dy}^{y \ \text{maclaurin's series}}$	3	4	3
Find the value of $\Gamma_{(-1/2)}^{aurin's series}$		5	3
$\frac{PART-B}{PART-B}$ Answer <i>five</i> questions by choosing one question from each unit ( 5 x 12 = 60)	Marks )		
	Marks	со	BL
UNIT–I			
2. a) Reduce the following matric into Echelon form and hence fi	nd		
$n_{2} = 3 - 1 - 1$			
2. a) Reduce the following matrix into Echelon form and hence find its rank. $\begin{bmatrix} 1 & -1 & -2 & -4 \\ 3 & 1 & 3 & -2 \\ 6 & 3 & 0 & -7 \end{bmatrix}$			
$\begin{vmatrix} 3 & 1 & 3 & 2 \\ 6 & 3 & 0 & -7 \end{vmatrix}$	6M	1	3
<ul> <li>b) Test for consistency and solve</li> </ul>			
4x-2y+6z = 8			
x+y-3z = -1	014		
15x-3y+9z = 21	6M	1	3
OR Find the eigenvalues and chapvect is matrix			
B. Find the eigenvalues and egenvect matrix			
B. Find the eigenvalues and eigenvect matrix $i \begin{bmatrix} 1 & 1 \\ 1 & 5 \end{bmatrix}$ matrix $\begin{bmatrix} 1 & 5 \\ 3 & 1 \end{bmatrix}$			
$\begin{bmatrix} 3 & 1 & 1 \end{bmatrix}$	12M	2	3

