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Roll No.

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B. E. (Third Semester) Examination, April-May 2020

(New Scheme)

(IT Engg. Branch)

PROBLEM SOLVING & LOGIC BUILDING USING C

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks.

Attempt any two parts from (b), (c) and (d) of each question and each part carries 7 marks.

Unit-I

- (a) What symbols is used to add comment in a C program?
 - (b) Briefly describe the evolution of "C" as a Programming language.
 - (c) Discuss the all types of constant in C with suitable example.

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(d) Write a program to check whether entered year is leap year or not using conditional operator.

Unit-II

2. (a) Find out the output of following code.

void main () $\{$ int i = 1; for (;i++<10;);

printf("output: %d",i); }

(b) Write the program to print the following patterns:

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(c) A library charge a fine for every book returned late. For 5 days the fine is 50 paise, for 6-10 days fine one rupees and above 10 days fine is five rupees. If you return the book after 30 days your membership

will be cancelled, write a program to accept the number of days the member is late to return the book and display the fine or the appropriate message.

(d) Write a program to find greatest common factor of

two entered no. also draw a flow chart of a program. 7

Complete Day Land Unit-III

3. (a) Which header file is needed to perform string operation?

(b) What is a String? How are they declared? Write a program to copy one string to another without using the standard library functions.

(c) Write a program to generate series of even numbers for desired range using recursion function and also find the sum of all even numbers.

(d) Write a program to find the percentage of marks obtained by a student in 6 subjects. Marks are to be stored in an array and the calculation of percentage is to be done through a function.

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4. (a) What is Wild pointer?

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	(b) Describe the way to declare pointer and its types. Also write the advantages of using pointers in a C	_
	program.	7
	(c) Write a program to swap or interchange two integer numbers by using third variable through Pointer.	7
	(d) Write a program to concatenate two strings using Pointer.	7
	Unit-V	
5.	(a) What is the significance of fclose() function?	2
	(b) Write the differences between structures and arrays	. 7,
	(c) Write a program to create a text file, fill the text file with characters input from the keyboard and show the contents of the text file. The old contents of the	
	file should not get deleted.	7
	(d) Write a program to define a structure address that will contain House no, Colony and city as address. Now define another structure person that will contain name, age and a variable type's address as members. Take the details of a person as input from the user	
	and print it.	7