146/Comp.Sc UG/1st Sem/COM.SC-G-CC-L-101A/21

U.G. 1st Semester Examination - 2021 COMPUTER SCIENCE [PROGRAMME]

Course Code: COM.SC-G-CC-L-101A

(Computer Fundamentals and Programming using C)

Full Marks : 40 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

- 1. Answer any **five** questions: $2 \times 5 = 10$
 - a) What are the naming rules of identifier?
 - b) What is library function?
 - c) Specify the use of typedef.
 - d) What is dynamic memory allocation?
 - e) What do you mean by local variable and global variable?
 - f) Differentiate between for and while loop.
 - g) What is the significance of getc(.) function?

[Turn over]

GROUP-B

else with examples and syntaxes.

Explain if-else, nested if-else and cascaded if-

How break and continue statements are used

in a C program? Explain with the help of

 $5 \times 2 = 10$

5

5

Answer any **two** questions:

example(s).

2.

b)

c)	c) Write a C program to find all prime number	
	between 1 and 1000.	5
d)	d) Explain different categories of pre-pro	
	directives used in C.	5
	GROUP-C	
Answer any two questions:		10×2=20
3. a)	What is used defined fu	unction? Explain
	different classification	of user defined
	functions based on param	neter passing and
	return type with examples.	
b)	What is structure? Explain	structure within a
	structure with the help of a	an example.
		(2+4)+(2+2)
4. a)	Discuss the various operat	tors available in C
	with the help of examples.	
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- b) Write a C program to create a file and display its content. 4+6
- 5. a) Write a C program for binary to decimal conversion using recursion.
 - b) Write a program in C using functions to swap two numbers using call by value and call by reference. 5+5
- 6. Write short note on any **two** of the following:

5×2=10

- a) Data types
- b) Array
- c) Storage class in C
- d) Pointer
