Roll No	Total Pages: 3
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## **GSE/M-20**

1497

#### COMPUTER SCIENCE

(Programming in C)

### Paper-I

Time: Three Hours] [Maximum Marks: 40

**Note:** Attempt *five* questions in all. Question No. 1 is compulsory. Select *one* question from each unit.

## **Compulsory Question**

- 1. (a) What is scanf() function?
  - (b) Explain Increment and Decrement operators.
  - (c) Write the advantages of using functions.
  - (d) How union is different from structure?  $(4\times2=8)$

#### UNIT-I

- **2.** (a) What is a variable in C? Write rules for naming variable. How is it declared and initialized?
  - (b) Explain basic data types with qualifiers. 4
- **3.** Discuss unformatted I/O functions in C with examples. 8

# UNIT-II

4.	(a)	Write a program in C to find biggest between the numbers using Conditional operator.	ree 4
	(b)	Evaluate the following expressions:	
		(i) 8 - 9% 2 * 4	
		(ii) $!(4 > 3)   (6 > = 6)$	
		(iii) $5 * 6/3 > 9 - 4 * 3$	
		(iv) $8 < 3 + 6 \&\& 7$ .	4
5.	Disc	cuss following branch control statements with example	es :
	(a)	Simple if statement.	
	(b)	if-else statement.	
	(c)	Nested- if statement.	
	(d)	else- if ladder.	8
		UNIT-III	
6.	(a)	Write a program in C to print following pattern:	
		1	
		23	
		345	
		i	
		N lines	4
	(b)	Differentiate the following:	
		(i) while and do-while loop.	
		(ii) break and continue statement.	4

**7.** What is User defined function? Explain with examples function protoyping, function definition and function calling.

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### **UNIT-IV**

- **8.** What does storage class tell us? Explain with examples auto, static and register storage class.
- **9.** (a) What is an Array ? How can you declare, process and initialize one-dimensional array ?
  - (b) Write a program in C to arrange elements of a list in ascending order.