

AT – 423

First Semester B. C. A. (Part – I) Examination

C PROGRAMMING

Paper – I ST 2

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

1. (a) Describe brief history of C language and explain its features. 6
- (b) Describe fundamental data types in C with example. 6

OR

2. (a) Describe structure of C program with sample program to print 'GOOD MORNING'. 6
 - (b) Describe user defined Data types in C with suitable example. 6
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3. (a) Define arithmetic and relational operators in C with example. 6
 - (b) Write a program in C to find greatest among two numbers using conditional operator. 6

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OR

4. (a) Describe operators precedence and associativity in following tabular form :

Operators	Category	Operators	Associativity	Level
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- (b) Write a program in C to perform addition, subtraction, multiplication and division of two numbers by taking values from user. 6
5. (a) Explain with syntax, `getchar()` and `putchar()` with suitable example. 6
- (b) What is formatted input ? Explain syntax and use of `scanf()` with suitable example. 6

OR

6. (a) What is formatted output ? Explain syntax and use of `printf()` with suitable example. 6
- (b) Explain with syntax, `gets()` and `puts()` with suitable example. 6
7. (a) Describe syntax of `if` and `if-else` statement with example. 6

- (b) Give syntax of while loop and write program to print 1 to 10 numbers. 6

OR

8. (a) What is necessity of control statement ?
What are various control statements in C ? 6

- (b) Describe syntax of for statement. Write program to print even numbers between 1 to 10. 6

9. (a) Explain declaration and initialization of pointer with example. 6

- (b) Write program to read two $m \times n$ matrices and perform addition of two matrices. 6

OR

10. (a) Explain declaration and initialization of one dimensional array with example. 6

- (b) Explain pointer arithmetic with example. 6



