

(i) Printed Pages : 3

Roll No. ....

(ii) Questions : 9

Sub. Code : 

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Exam. Code : 

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**B.A./B.Sc. (General) 2<sup>nd</sup> Semester**

**1048**

**INFORMATION TECHNOLOGY**

**Paper : B Computer Programming Using C**

**Time Allowed : Three Hours]**

**[Maximum Marks : 65**

- Note :-**
- (i) The Question Paper will consist of **Four** Sections.
  - (ii) The students are required to attempt **one** question from each Section and the Compulsory question.
  - (iii) **All** questions carry equal marks.

**(Compulsory Question)**

1. Write short note on the following :

- (a) What do you understand by the term pointer to pointer ?  
3
- (b) Name different header files used in C. 2
- (c) How to define functions with variable number of arguments in C ? 2
- (d) Write a short note on programming language classification.

2

- (e) Difference between variable and a constant. 2
- (f) Explain the use of goto statement in C. 2

### SECTION-A

- 2. What are the different problem solving strategies ? Explain each one of them giving a example. 13
- 3. Write a note on: Use of procedure in modular testing, Choice of variable names, Documentation of programs and program testing. 13

### SECTION-B

- 4. What are the different control constructs used in C. Mention the syntax expression for each. Documentation of programs and program testing. 13
- 5. (a) What is an array in C ? What is its use ? 7
- (b) Differentiate between break and continue statement. 6

### SECTION-C

- 6. What do you mean by call by value and call by reference ? How are they different from each other ? 13
- 7. (a) Write a program in C to dynamically allocate a memory to an array of 10 integers. 6
- (b) Write a note on : Array of pointers and pointer to a function. 7

## SECTION-D

8. What is the difference between an array and a structure in C ?  
What are the advantages of using a structure ? 13
9. Explain the different string functions of C language. Explain each function giving its syntax. 13