

Roll No. \_\_\_\_\_

SIIS 68 A-2K13

[Total No. \_\_\_\_\_]

KARNATAKA  
COMPUTER BOARD  
B I D A R-583 401

B.Sc. IInd Semester Degree Examination

Computer Science

(Advanced 'C' Programming)

Paper - CS-201

Time : 3 Hours

Maximum Marks : 80

Section - A

I. Answer the following questions: (15×1= 15)

- 1) What is function prototype declaration?
- 2) What are arguments and parameters?
- 3) How do you access the members of structures?
- 4) Define array of structure.
- 5) Write the syntax of Union in 'C'.
- 6) What is a pointer?
- 7) What is address operator?
- 8) What is a data file?
- 9) List the random access files.
- 10) What is EOF?
- 11) Mention the input and output operations on file
- 12) What is file inclusion?
- 13) What is macro - Substitution?
- 14) Distinguish between 'gm' and 'gd'.
- 15) How do you declare the enumerated data type.

## Section - B

II. Answer any **five** of the following :

(5×5= 25)

- 1) Discuss the arrays in functions with example.
- 2) What is recursion? Explain briefly.
- 3) What is the need for an array of structure? Explain with example.
- 4) Distinguish between an address operator and dereferencing operator.
- 5) Write a 'C' program to find the largest of two numbers using macro-substitution.
- 6) Explain any two functions used to read data from the file.
- 7) Write a note on graphics.

## Section - C

III. Answer any **four** of the following :

(4×10= 40)

- 1) Discuss the benefits of user - defined functions with example.
- 2) What are embedded structures? Give an appropriate example of embedded structure.
- 3) Explain the memory management function with example.
- 4) Write a 'C' program to accept two one - dimensional arrays and find the sum of elements using malloc ( ) function.
- 5) Write a 'C' Program to create a data file to store the information of a student in terms of Name, Roll number, division, Marks in all subjects and display this information for the student.
- 6) Write a note on
  - a) Preprocessor directives
  - b) Command line arguments.