

**F.Y. B. SC. (COMPUTER SCIENCE) SEM –II (CBCS - 2016
COURSE) : WINTER - 2017**

SUBJECT : PROGRAMMING IN C - II

Day : Wednesday
Date : 25/10/2017

W-2017-0710

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

Q. 1 A) Select the correct option and rewrite the statement: (06)

- a) '&' is called as _____ in pointer concept.
 - i) Logical operator
 - ii) Address operator
 - iii) Conditional operator
 - iv) None of these
- b) A pointer is _____.
 - i) A variable that stores address of an instruction.
 - ii) A keyword used to create variables.
 - iii) A variable that stores address of other variable.
 - iv) None of these
- c) What is the memory size in bytes of the following structure?
struct stud
{
 int roll;
 char name[20];
 float fees;
};
 - i) 24
 - ii) 26
 - iii) 28
 - iv) 22
- d) Which types of file cannot be opened using fopen() ?
 - i) .txt
 - ii) .bin
 - iii) .c
 - iv) None of these
- e) stdout, stdin and stderr are?
 - i) File pointers
 - ii) File descriptors
 - iii) Streams
 - iv) structure
- f) If two strings are identical then, strcmp() function returns
 - i) 1
 - ii) 0
 - iii) -True
 - iv) True

B) Answer in ONE sentence: (06)

- a) What is static memory allocation?
- b) What is the usage of strcpy()?
- c) Give purpose of – fgetc()
- d) Define 'employee' structure with members (emp-id, ename, edesig, esal)
- e) What is calloc()?
- f) Name the operator used to access the members of a structure dynamically.

P. T. O.

- Q. 2** Attempt **ANY THREE** of the following: **(12)**
- a) What is file? Describe various file opening modes.
 - b) Differentiate between array and structure.
 - c) Write a C program to accept a string of characters and find the occurrence of character 'a' in it.
 - d) Give applications of an Array.
- Q. 3** Attempt **ANY FOUR** of the following: **(12)**
- a) Write a C program to accept 5 elements in a one dimensional array and display them in a reverse order.
 - b) Give purpose of :
 - i) ** operator
 - ii) * operator
 - c) Write a C program to find binary equivalent of a decimal number.
 - d) Define Array. How arrays are classified?
 - e) Write a note on array of structures.
- Q. 4** Attempt **ANY TWO** of the following: **(12)**
- a) Write a C program to calculate net salary of an employee where
HRA = 30 % of BASIC
DA = 62 % of BASIC
IT = 30 % of BASIC
NETSAL = BASIC + HRA + DA - IT
 - b) Write a C program to find addition of matrices using two dimensional array.
 - c) Write a C program using file to create and read a text file.
- Q. 5** Attempt **ANY TWO** of the following: **(12)**
- a) What is union? How to declare union? State difference between structure and union.
 - b) Write a C program to accept elements in one dimensional array and sort them in descending order.
 - c) What is user-defined datatype? Explain enum and typedef with example.

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