

CP Paper. Special chance
NOV - 2018

1, 2, 3, 4, 7, 8th Sem.

4.

Exam.Code:0905
Sub. Code: 6643

1108
B.E. (Biotechnology)
First Semester
CS-104: Computer Programming
(Common with ECE)

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) What is a pre processor directive?
- b) What is the output of the following code fragment:

```
for(i=3; i<15; i++)  
printf("%d",i);
```
- c) What is meant by self referential structure?
- d) List the steps required for compiling and running a C program?
- e) How many minimum temporary variables are needed to swap the contents of two variables? (5x2)

UNIT - I

- II. a) What are the advantages of for loop? List the differences between for loop and do-while loop? Give an example on break and continue statements?
- b) Explain working of Unary, Binary, Assignment and Ternary operator. Give suitable example for each. (2x5)

- III. a) Write a program to sort the list of strings alphabetically using a two-dimensional array?
- b) Define function? Explain functions with return type and non-return type with examples? (2x5)

P.T.O.

(2)

IV. Explain the following with examples:-

a) Multi dimensional array

b) Switch case statements

(2x5)

UNIT - II

V. a) What is a pointer? Describe call-by-value and call-by-reference with suitable examples?

b) Differentiate between structures and unions.

(2x5)

VI. a) Explain Array of structures. Why do we use array of structures?

b) Write a C program to find the number of and sum of all integers greater than 100 and less than 200 that are divisible by 7.

(2x5)

VII. a) What is a file? How do you declare a file? Explain different modes of operations on files with examples?

b) Explain Encapsulation and polymorphism with suitable example.

(2x5)

x-x-x