

Exam.Code:0439
Sub. Code: 25958

2124
M.Sc. (Bio-Informatics) First Semester
MBIN-8005: Computer Programming and Concepts of Computing

Time allowed: 3 Hours

Max. Marks: 60

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

x-x-x

Q1. Explain:

- (a) ASCII and EBCDIC character codes
- (b) Operators and expressions
- (c) Break and continue statements
- (d) Call by reference
- (e) Structures and functions
- (f) Basic constructs of programming language
- (g) Assignment statement
- (h) Call by value

(8 x 1.5 =12)

UNIT-I

- Q2. (a) Define computer system alongwith its various characteristics. Classify them based on their size and speed. (6)
(b) Draw difference between algorithm and flowchart through suitable examples. (6)
- Q3. (a) Define number system. Exemplify the conversion of binary, octal and hexadecimal number system to decimal number system. (6)
(b) How various data types are implemented through various I/O statements in C? (6)

UNIT-II

- Q4. (a) Perform decision making in C through any 2 control structures. (6)
(b) Draw difference between structures and unions through their implementation. (6)
- Q5. (a) How do you perform insertion, deletion and searching in an array? (6)
(b) Define a function. Draw difference between library and user-defined functions through a C program. (6)

P.T.O.

(2)

UNIT-III

Q6. (a) Explain the following in context of pointers:

- Pointer operators
- Pointer arithmetic

(3, 3)

(b) Which are the various file modes? Write a program to read marks from data file for 10 students in three subjects and display average marks for the class.

(6)

Q7. (a) Write short notes on the following:

- Pointer Array
- Function and pointers

(3, 3)

(b) Which are the different file operations in C? Implement any two for text files.

(6)

x-x-x