Exam. Code: 439 Sub. Code: 3007

Max. Marks: 60

1125

M.Sc. Bio-informatics 1st Semester MBIN-8005: Computer Programming and Concepts of Computing

Time Allowed: 3 hours Note: Attempt five questions in all, including Question No. I which is compulsory and selecting at least one question from each Unit. Attempt the following in brief:-I. a) Bit and Byte. b) "BCD" character code. c) Assignment statement. d) Library functions. e) Nested structure. f) Unious. g) Pointer arrays. $(8x1\frac{1}{2})$ h) User-defined functions. **UNIT-I** a) Define Computer. Explain its classification based on size and performance. II. (2,4) $)_2 = ($ $)_8 = ($ b) Convert $(22.13)_{10} = ($ (3,3)c) Convert $(AB.A)_{16} = ($ a) Define Programming Language. Explain its various types in detail. (2,4)III. b) Explain various data-types and I/o statements in C. (3,3)**UNIT-II** a) What is the difference between "if-else" and "switch" statement? Demonstrate IV. through programming example. b) Draw difference between "call boreference" and "call by value" through (6)suitable parameter passing. a) Draw difference between "while" and "do-while" statements with suitable V. b) What is recursive function? How is it called in main program? Explain. (2,4) UNIT-III a) Define Pointer. How it is declared and implemented in C to get its address and VI. (2,4)contents. Write an example to support your facts. b) What is file? Explain any three operations in C to handle files. (1,5)a) How Pointers are initialized and accessed in functions? Explain through VII. (3,3)example. b) Write a program to calculate the average marks of 10 students in 3 subjects (6) using files in C language.