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DMI-ST.EUGENE UNIVERSITY
DEGREE EXAMINATION – DECEMBER – 2022

SEM: II 800CS220 INTRODUCTION TO PROGRAMMING USING C

Time: 3 Hours

Max. Marks: 100

Answer any Five questions (5 x 20 = 100 Marks)

1. a) Give a brief account of the devices invented in the history of computer. (5 Marks)
b) Briefly write about any 4 characteristics of a computer. (4 Marks)
c) Define and explain the different types of number systems with examples. (8 Marks)
d) List out any 3 stages of program development. (3 Marks)
2. a) Differentiate declaration from initialization with examples. (5 Marks)
b) Explain the Structure of C programming. (7 Marks)
c) Write a program to join two string. (8 Marks)
3. a) Briefly summarize Arrays. (5 Marks)
b) Write a simple program to access elements in a one dimensional array. (10 Marks)
c) Differentiate the base address of an array from the index. (5 Marks)
4. a) Elaborate function calling. (5 Marks)
b) Give the general format for a function and explain all the parts. (5 Marks)
c) Illustrate a program for calling a function. (5 Marks)
d) Explain pointer initialization with an example. (5 Marks)
5. a) Write a program in C language to read details of a books containing title, author, pages, price using unions. (10 Marks)
b) State the differences between structures and unions. (10 Marks)
6. a) Produce a program to generate the Fibonacci series for a given number using a recursive function. (10 Marks)
b) Explain pointer declaration with an example. (10 Marks)
7. a) Write a c program to print out your name, age, gender and height using scanf(). (10 Marks)
b) Explain any 5 different methods of problem solving. (5 Marks)
c) Explain the steps in debugging a program code. (5 Marks)