

2012
P.G. Diploma in Computer Applications
First Semester
PGD-1102: Computer Programming Using C

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. 9 (Section-E) which is compulsory and selecting one question each from Section A-D.

x-x-x

Section-A

1a) What do you understand by computer based problem solving? What are the various requirement of problem solving by a computer?

b) why the header file stdio.h and math.h is frequently used in C-language?

(6,6)

2 a) How do you use flow charts for solving a problems?

b) what are various storage classes specifiers used in C? Explain each one

(6,6)

Section-B

3a) what do you mean by recursion? What are its advantages?

b) What are pointers? Why are they used? Write a program to find sum of array element using pointers?

(4,8)

4 what are arrays? How are they stored in memory? How do you create one dimensional and two dimensional arrays? Write a program to sort the elements of an array?

(12)

P.T.O.

(2)

Section-C

5 what is difference between an array and structure in C-language? What are advantage of using a structure? (12)

6 explain the different string functions used in C-language? Explain each function with its syntax? (12)

Section-D

7 a) What are basic I/O functions that can be performed on files

b) What are the signifance of gets() and puts() with example? (8,4)

8 a) What are basic console I/O functions? Give example of each.

b) What are the troubles with opening a file? (8,4)

Section-E

9 a) Write the various operator used in C-language?

b) What do you mean by pseudo code?

c) What do you mean by scope resolution with example?

d) Explain string.h and #include?

e) Differentiate between external and automatic in storage classes.

f) Explain the use of goto statement in C-language. (6*2=12)

X-X-X