

Total No. of printed pages = 3

Co-304/PUC/3rd Sem/2016/N

PROGRAMMING USING C

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any *four* from the rest.

1. Answer in brief : 2×5=10
 - (a) Define the newline character.
 - (b) What is the function of '&' symbol ?
 - (c) Give the definition of a single pointer variable.
 - (d) What are the derived data types in 'C' ?
 - (e) Compare printf () and fprintf ().

2. (a) How a constant is declared in a 'C' language program ? 2

[Turn over

(b) Define the variables : $2 \times 4 = 8$

(i) Global variable

(ii) Local variable

(iii) Static variable

(iv) Register variable.

(c) Describe the role of header file. Give at least three examples of header file along with a library function from each. $2 + 3 = 5$

3. (a) Write a 'C' program to read a number, check whether the number is prime or not. 8

(b) Describe the symbols used in a flowchart. 3

(c) Draw a flowchart to read a number and find factorial of the number. 4

4. (a) Describe the use of break and continue statement. 3

(b) Compare the Union and Structure data type. 3

(c) What is recursive function ? 2

(d) Write a 'C' program to read age of 10 students, display the array, sort them and display the sorted array. 7

5. (a) Describe the fopen () function. 2
- (b) How can you put data into a file ? Describe the method for this. 3
- (c) Write a 'C' program to read the following data :
Name, City, P.O. and P.I.N.
Store them into a file. 10
6. Write short notes on any three : 3×5=15
- (a) File modes
- (b) Linked list
- (c) A sorting algorithm
- (d) Binary search.