

B.E. (Computer Technology) Semester Third (C.B.S.)
Programming Logic Design in C Paper - II

P. Pages : 2

Time : Three Hours



KNT/KW/16/7233

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Assume suitable data whenever necessary.
 10. Illustrate your answers whenever necessary with the help of neat sketches.
 11. Use of non programmable calculator is permitted.

1. a) Write a program to find smallest element from an array. **5**
b) Define array? What are the different types of array. **5**
c) Write short note on: Enumerated data types. **4**

OR

2. a) Write a program to read name of 10 student from keyboard and arrange them alphabetically. **8**
b) What are the different string handling function available in 'C' . **6**
3. a) Write a program to read content of file and display it on screen using command line argument. **6**
b) What are the different file opening modes. **4**
c) Write syntax & use of feof() function & ferror () function. **4**

OR

4. a) A file of student contains data (no, name and marks) for each student. Write a program to do the following. **6**
i) Create the file.
ii) Insertion in file at the beginning of file.
iii) Deletion from file
- b) Explain the syntax of following. **8**
i) get c ()
ii) putc ()
iii) fprintf ()
iv) fseek ()
v) fgetc ()
vi) rewind ()
vii) fread ()
viii) fwrite ()

5. a) Write a function Add () for the concatenation of two strings using pointer. (without using string handling function) 7

b) Write short note on: 6
a) Static memory Allocation. b) Dynamic memory Allocation.

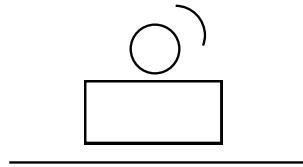
OR

6. a) Explain different Dynamic memory allocation functions. 7

b) Write a program for exchanging the value of two variables using pointers & functions. 6

7. a) Write the difference between Graphics mode & Text mode. 3

b) Write a program to draw the following on screen. (Assume suitable dimension) 7



c) Explain out text () & outtextxy () function with example. 3

OR

8. a) Write a menu driven program to draw. 7

- | | |
|------------|-----------|
| 1) Ellipse | 2) Line |
| 3) Arc | 4) Circle |
| 5) Point | 6) Exit |

b) Explain any two functions that are used for moving of graphical objects. 6

9. a) Explain Basic model of computation. 6

b) Explain principle of Mathematical Induction using example. 7

OR

10. a) What are the correctness and efficiency issues in programming. 7

b) Define complexity of algorithm. Compare three cases of complexities. 6

11. a) What do you mean by stepwise refinement of the program? Compare top-down and bottom-up strategies to solve a program. 8

b) Write a note on: 5
"Assertions and loop invariants".

OR

12. a) Explain different features of object oriented programming. 9

b) What do you mean by imperative style programming. 4
