

B.E. (Information Technology) Semester Third (C.B.S.)
Programming Logic & Design Using C Paper - II

P. Pages : 2

Time : Three Hours



KNT/KW/16/7243

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.
 9. Assume suitable data whenever necessary.
 10. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain the following with suitable example. 6
- i) For loop
 - ii) Do-while loop
 - iii) Else if
- b) In a company an employee is paid as under if his basic salary is less than Rs. 1500, then HRA = 10% of basic salary and DA = 90% of basic salary. If his salary is either equal to or above Rs. 1500, then HRA = Rs. 500 and DA = 98% of basic salary. If the employee's salary is input through the keyboard write a program to find his gross salary. 8

OR

2. a) Explain different types of operator used in C. 6
- b) Write a program in 'C' for displaying number of days in a month using switch statement. 8
3. a) List and explain with example of call by value and call by reference. 6
- b) Write a C program for multiplication of 4x4 matrix. 7

OR

4. a) Explain linear search with suitable example. 3
- b) Write a short note on different storage classes used in C. 5
- c) Write a program in C for performing addition, subtraction, multiplication and division by using pointers. 5
5. a) Explain structure and union with the help of suitable example. 7
- b) Write a program in C to count number of words, vowels, digits, spaces & special character take input string from keyboard. 7

OR

6. a) Write a program for concatenation of two string without using string Handling functions. 5
- b) Explain standard string functions. 6
- i) strcmp ()
 - ii) strlwr ()
 - iii) strdup ()
- c) Write the different preprocessor directives used in C. Explain any one. 3

7. a) Write a short note on command line argument. 3
b) Write a C program to count the number of characters & number of lines from Input file. 7
c) Write different file opening modes. 3

OR

8. a) Write a C program which reads the text from one file and copy into another file by using file handling. 7
b) Give the proper syntax and use of following functions. 6
i) fseek ()
ii) fflush ()
iii) fopen ()
9. a) Write a menu driven program using graphics having following options to draw. 7
line, rectangle, circle, ellipse.
b) Explain the purpose of following functions. 6
i) calloc ()
ii) malloc ()
iii) realloc ()

OR

10. a) Explain the following graphics methods. 6
i) getimage ()
ii) putimage ()
iii) image size ()
b) Explain dynamic memory allocation. 4
c) Write a short note on graphics in C. 3
11. a) What are the steps to call ROM – BIOS function? 7
b) Explain in detail with example elementary TSR. 7

OR

12. Write a short note on. 3
i) Pointer variable 3
ii) Array of pointer to string. 4
iii) NULL pointer. 4
iv) Dangling pointer. 4
