

JK Lakshmipat University Jaipur

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination-, December 2023

B. Tech. in CSE, Semester V

Roll No.....

CSE1135: Programming II (C)

Time: 2:30 hours

Max. Marks: 30

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
4. Do not hardcode the C programs. User input must be there in all the programs.

Q.1A	I). Find errors (if any) in the following program and rewrite it. <pre>#define<stdio.h> float main <> { int m[][] = ({1,2,3,4}); for(i=4, i>=0; i--) for(j=0, j<4; j++); m[i][j] = a[i][j]+b[i][j]; return 0.0; }</pre>	II) What will be the error/output of the following C code? <pre>#include<stdio.h> #define f(g,g2) g##g2 int main() { int var12=100; printf("%d",f(var,12)); return 0; }</pre>	II) What will be the error/output of the following C code? <pre>#include<stdio.h> #include<string.h> int main() { int i, n; char a[5]="girl"; char *x = a; n = strlen(x); *x = x[n]; for(i=0; i<n; ++i) { printf("%s \n",x); x++; } return 0; }</pre>	03 Marks CO4, CO3
Q.1B	Explain meaning of following statement with reference to C Programming- 1. ptr=fopen("zzz.c","r+"); 2. while((i=fgetch(ptr))!=EOF) 3. #define square(x) x*x 4. enum colors {BLACK,BLUE,GREEN} 5. struct xx *p; 6. register int a=2;			03 Marks CO3
Q.2A	Declare a structure book having elements as book_isbn_number, book_title, book_price, book_author and declare array of structure taking input of 10 books and display details of each books using display function in C language.			03 Marks CO4
Q.2B	Write a C program to count characters, words, and lines in a text file using file handing.			03 Marks

		CO5
Q.3A	What is an identifier and keyword? Explain the rules for naming valid identifiers in C with example	03 Marks CO3 CO4
Q.3B	Write down the difference between Structure and Union along with advantages and disadvantages and application of both?	02 Marks CO1
Q.3C	Explain the concept of Dynamic Memory Allocation?	02 Marks CO4

Q.4A	Write a program in C to get the Second largest and second smallest element of an array size of 10 using user-defined function.	03 Marks CO2
Q.4B	What is a pointer to pointer? Write syntax and explain with example program.	02 Marks CO4
Q.5A	Write a C program to read string from keyboard and find whether it is palindrome or not.	03 Marks CO3
Q.5B	Write short notes on following in C Language- 1. File opening modes (File Handling) 2. Inline function 3. fgetc() 4. Built-in function 5. preprocessor in C 6. Global Variables	03 Marks CO3

*****All The Best*****