

DOON UNIVERSITY, DEHRADUN

End Semester Examination, 1st Semester, 2023

Academic Year 2023-2024 (Odd Semester)

School of Technology

Department name: Computer Science

Programme Name: B. Tech. (CSE)

Course Code with Title: CEC 101, Problem solving concepts and programming in C

Time Allowed 2.00 Hours

Maximum Marks: 60

SECTION: A

Q1. Attempt all questions. Each question is of one marks. (1X 12 = 12 Marks)

(i) If an Integer number begin with 0x66, it is ______.

a) Hexadecimal

b) Decimal

c) Binary

d) Octadecimal

- (ii) Who is the father of C language?
 - a) Steve Jobs
- b) James Gosling
- c) Dennis Ritchie
- d) Rasmus Lerdorf
- (iii) Mark the incorrect statement
 - a) Operators are symbols to perform mathematical or logical operations
 - b) Variable is a name of memory location to store data
 - c) main function is the entry point of C program
 - d) Function declaration is there in library files but actual code is there in header files
- (iv) Mark the correct output of the following C code:

```
#include <stdio.h>
int main()
{
  int i = 0;
  int x = i++, y = ++i;
  printf("%d % d\n", x, y);
  return 0;
}
```

- a) 0, 2
- c) 0, 1
- b) 1, 2
- d) none of these
- (v) The process of removing errors is called
 - a) compiling
- b) fixing
- c) debugging
- d) None of these

	(vi)		in letters. c) CamelCase	
			d) None of the above.	
	(vii)	In short int, long is	the and int is	
			qualifier c) qualifier and datatype	
	/ ····\		qualifier d) constant and datatype	
	(viii)		is used to define pre-processor?	
	(ix)		ed function inheader file.	
	(x)		g statement that run endlessly is called as tement true or false: C is low level languag	
	(xi) (xii)		ent true or false: A structure contains home	
	(\\)	is following statem	ent true of faise. A structure contains nome	genous data.
			SECTION: B	
Q2. Att	empt ar	ny four questions of	ut of five. Each question is of six marks.	(6 X 4 = 24 Marks)
		The state of the s	nd derived datatype along with size.	
			ader file, compiler, low level language, HLL	
c)	What i	s pointer? Explain wi	ith help of a C program.	
			s file functions with suitable example.	
e)	Differe	ntiate between unior	n and structure with suitable examples and	definitions.
			SECTION: C	
Each q	uestion	contains two parts a	& b. Attempt any one part of your choice f	rom each question.
				(12V 1 = 12 Marks)
Q3.				(12X 1 = 12 Marks)
Q3.			pute the grade of students using switch ca	se. Read the total marks
			pute the grade of students using switch ca	se. Read the total marks
		the user (out of 100)) and then calculate the grade and display t Grade	se. Read the total marks
	from to Marks Marks	the user (out of 100) s s<40) and then calculate the grade and display t Grade F	se. Read the total marks
	from Marks	the user (out of 100) s s<40 marks<60) and then calculate the grade and display t Grade F C	se. Read the total marks
	from Marks Marks 40<= 60<=	the user (out of 100) s s<40 marks<60 marks<70) and then calculate the grade and display t Grade F	se. Read the total marks
	from Marks Marks 40<= 60<= 70<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80) and then calculate the grade and display to Grade F C B B+	se. Read the total marks
	from f Marks Marks 40<= 60<= 70<= 80<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90) and then calculate the grade and display to Grade F C B B+ A	se. Read the total marks
	from f Marks Marks 40<= 60<= 70<= 80<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80) and then calculate the grade and display to Grade F C B B+	se. Read the total marks
	from f Marks Marks 40<= 60<= 70<= 80<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90) and then calculate the grade and display to Grade F C B B+ A	se. Read the total marks
a.	from Marks Marks 40<= 60<= 70<= 80<= 90<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100	ond then calculate the grade and display to Grade F C B B+ A A+ OR	se. Read the total marks the user.
a.	from Marks Marks 40<== 60<= 70<= 80<= 90<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100 a C program which p	and then calculate the grade and display to Grade F C B B+ A A+	se. Read the total marks the user.
a.	from Marks Marks 40<== 60<= 70<= 80<= 90<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100 a C program which p	OR Orange F C B B+ A A+ OR Derforms following computation: i) count the	se. Read the total marks the user.
a.	from Marks Marks 40<== 60<= 70<= 80<= 90<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100 a C program which p	OR Orange F C B B+ A A+ OR Derforms following computation: i) count the	se. Read the total marks the user.
b.	from Marks Marks 40<== 60<= 70<= 80<= 90<=	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100 a C program which p	OR Orange F C B B+ A A+ OR Derforms following computation: i) count the	e number of vowels in the ing function.
a.	from Marks Marks 40<= 60<= 70<= 90<= Write string	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100 a C program which p given by user ii) rev	OR Orange F C B B+ A A+ OR Derforms following computation: i) count the	e number of vowels in the ing function.
b. Q4.	from Marks Marks 40<= 60<= 70<= 80<= 90<= Write string	the user (out of 100) s s<40 marks<60 marks<70 marks<80 marks<90 marks<100 a C program which p given by user ii) rev	OR performs following computation: i) count the rese the string. Implement this program using print the record (name, rollno, branch, and print the roll the roll the roll the roll the roll the roll	e number of vowels in the ing function.

b. Write a program in C to copy the contents of a file from one file to another file.