

Enrollment No: _____

Exam Seat No.: _____

C. U. SHAH UNIVERSITY

Winter Examination - 2022

Subject Name: Programming in C

Subject Code: 4CS01TCP1

Branch: B.Sc.I.T.

Semester: 1

Date: 02/01/2023

Time: 11:00 To 01:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Que-1 Attempt all the following MCQs.

[14]

1) Who is the father of C language?

- | | |
|------------------|-------------------|
| a) Steve Jobs | c) Dennis Ritchie |
| b) James Gosling | d) Rasmus Lerdorf |

2) Which is valid C expression?

- | | |
|--------------------------|--------------------------|
| a) int my_num = 100,000; | c) int my num = 1000; |
| b) int my_num = 100000; | d) int \$my_num = 10000; |

3) What is the default return-type of getchar()?

- | | |
|-----------|--|
| a) char | d) reading character doesn't require a return-type |
| b) int | |
| c) char * | |

4) Which keyword is used to prevent any changes in the variable within a C program?

- | | |
|--------------|-------------|
| a) immutable | c) const |
| b) mutable | d) volatile |

5) What is an example of iteration in C?

- | | |
|----------|-------------------------|
| a) for | c) do-while |
| b) while | d) all of the mentioned |

6) Which of the following is an exit-controlled loop?

- | | |
|----------|------------------|
| a) while | c) do while |
| b) for | d) None of above |

7) What is #include <stdio.h>?

- | | |
|---------------------------|-----------------------------|
| a) Preprocessor directive | c) File inclusion directive |
| b) Inclusion directive | d) None of the mentioned |



8) How many number of pointer (*) does C have against a pointer variable declaration?

- a) 7
- b) 127
- c) 255
- d) No limits

9) In C language, FILE is of which data type?

- a) int
- b) char *
- c) struct
- d) None of the mentioned

10) What is the sizeof(char) in a 32-bit C compiler?

- a) 1 bit
- b) 2 bits
- c) 1 Byte
- d) 2 Bytes

11) scanf() is a predefined function in _____ header file.

- a) stdlib. h
- b) ctype. h
- c) stdio. h
- d) stdarg.

12) _____ converts the programs written in assembly language into machine instructions.

- a) Machine compiler
- b) Interpreter
- c) Assembler
- d) Converter

13) Which of the following typecasting is accepted by C language?

- a) Widening conversions
- b) Narrowing conversions
- c) Widening & Narrowing conversions
- d) None of the mentioned

14) C preprocessors can have compiler specific features.

- a) True
- b) False
- c) Depends on the standard
- d) Depends on the platform

Attempt any four questions from Que-2 to Que-8

Que-2 Attempt all questions.

[14]

- 1) What is flowchart? Explain various symbols used in flowchart. [4]
- 2) Discuss break and continue statements with example. [5]
- 3) What is comment? Explain different types of comments in C language. [5]

Que-3 Attempt all questions.

[14]

- 1) What is array? Explain one-dimensional array with example. [5]
- 2) What is variable? Enlist rules for declaring variable and also give example of it. [5]
- 3) Explain gets(), getche(), strlen(), isalnum() with example. [4]

Que-4 Attempt all questions.

[14]

- 1) Discuss different operators available in C language. [7]
- 2) Explain if...else and switch statements with syntax and example. [7]



- Que-5 Attempt all questions.** [14]
- 1) Discuss different data types available in C language. [7]
 - 2) Write a note on basic structure of C program. [7]
- Que-6 Attempt all questions.** [14]
- 1) Explain for and do...while looping statements with syntax and example. [7]
 - 2) Define language. Explain machine and assembly languages in detail. [7]
- Que-7 Attempt all questions.** [14]
- 1) Write a program to print following. [5]
5
54
543
5432
54321
 - 2) Write a C program to print following. [5]
12345
2345
345
45
5
 - 3) Write a C program to print factorial of entered no. [4]
- Que-8 Attempt all questions.** [14]
- 1) Define UDF? Write a program to print "hello" message using UDF. [7]
 - 2) Write a note on: History of C. [7]

