



Faculty of Computing and Technology

Department of Computing

Bachelor of Science (Hons) in Computer Science | Software Engineering

End - Semester Examination

Year 2023, Semester 01 -Batch 01

CS|SE 1102 - Fundamentals of Programming

Duration: 3 Hours

Instructions to the candidates:

1. There are five (05) questions given.
2. Answer all the questions.
3. Clearly write all the calculations where they needed.
4. The total number of marks allocated will be 100.
5. Follow the General Guidelines given by the Department of Examination for exam Start time and closing time.

Question 01

A. Briefly describe the compiler and the interpreter.

Marks – 04

B. Describe the THREE (03) types of errors occur in programming.

Marks – 06

C. Discuss the SIX (06) main stages in the programming process.

Marks – 10

[Total Marks – 20]

Question 02

A. List the main FOUR (04) flowchart structures.

Marks – 04

B. Illustrate a flowchart to get the age as the input from the user, check the age and display the following messages accordingly.

If the age is greater than or equal to 20 -> **“You are an adult”**

If the age is less than 20 -> **“You are still a teenager”**

Marks – 06

C. Write a pseudocode to get the subject marks from the user as the input and display the grade according to the table given below. (Table 1)

Range	Grade
100- 90	A+
89-80	A
79-60	B
59-45	C
45-30	C-
29-0	F
For any other input	Invalid input

Table 1

Marks – 10

[Total Marks – 20]

Question 03

A. List the TWO (02) types of conversions in C – Type Casting.

Marks – 04

B. Write a C program to input two numbers from the user and display the summation.

Marks – 06

C. Create a user defined structure to save the following details of employees of an organization.

Employee id, Employee name, Employee age, Employee Address, Employee salary

Marks – 10

[Total Marks – 20]

Question 04

A. Briefly describe the functionality of “break” and “continue” statements in C programming.

Marks – 04

B. Write a C program to print the numbers from 1 to 10, using a loop structure.

Marks – 06

C. Write a c program to get a number between 1 and 7 from the user and display the messages according to the Table 2. (Hint: Use a switch statement)

Marks – 10

Number	Output
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
Any other input	Invalid Range

Table 2

[Total Marks – 20]

Question 05

A. Briefly describe FOUR (04) file Opening Modes in File Handling using C programming.

Marks – 04

B. Write a C program to define an integer array, assign the values from 5 to 10 (examples: 5, 6, 7, 8, 9, 10) and print the values in the command prompt. (Hint: Use a loop structure to print the values)

Marks – 06

C. Write a C program to input two numbers and print the largest number in the command prompt. To find the largest number, you should use a function. To the function give an appropriate name as well.

Marks – 10

[Total Marks – 20]

***** End Paper *****