



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, SRI CITY

TERM-I EXAMINATION - MONSOON 2024

Computer Programming

Date: 17-09-2024

Max. Marks: 20

CSE:UG1-IC

Duration: 90 Mins (09:15-10:45 AM)

Roll No: 52024016401

Instructions:

1. All questions are compulsory.
2. Write the answers legibly.

1	Write a C program to find maximum, minimum, mean, median and standard deviation for the given 5 floating point numbers (given from keyboard).	5 Marks
2	<p>Explain the in details the following:</p> <p>a. Read a four digit number as characters and convert them as numbers. For example, input is 2 5 3 8 and then as four individual characters.</p> <p>b. Next, read the five-digit number as five individual characters and convert it to a five-digit number. For example, input is 43561, read as individual characters, and then convert it to number 43561 (forty three thousand and five hundred sixty one).</p> <p>Note that, you should explain logic in clear words, and must be step-by-step that includes how it will work. It is not expected only the C program code.</p>	2+3 Marks
3	What is the purpose of the break statement in a switch case program in C? Explain your answer by giving a suitable C program.	[5 Marks]
4	<p>a. You have written a C program consisting of two separate files: math_operations.c and main_program.c. The math_operations.c file contains several functions for basic arithmetic, and main_program.c calls those functions. What is the role of compiler and linker during compilation and execution of the above programs.</p> <p>b. Write a program that uses an enum to define colours and a switch-case statement to print the colour name when a particular colour value is passed.</p>	<p>[2 Marks]</p> <p>[3 Marks]</p>