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| Subject code | : | CE144 | Semester | : | 1 | Academic Year | : | 2022-2023 |
| Subject name | : | Object Oriented Programming in C++ | | | | | | |

**Instructions for Coding standards:**

* First line in any program must be “/\* This program is prepared by 22CE0XX\_Name \*/”.
* Understand the problem and draw the flowchart for planned solution and write algorithm.
* **Indentation:** Ensure proper indentation in code.
* **Naming Conventions:** Ensure appropriate naming conventions for variables (CamelCase is mandatory).
* **Comments:** Ensure single line or multiline comments in code.
* Habituate yourself for revising code in order to solve errors.

**Rubrics:**

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| --- | --- | --- | --- |
| **Criteria** | **Excellent 5** | **Good 3** | **Poor 1** |
| Flowchart and Algorithm | Ensured correct use of Flowchart symbols, also flow of solution and algorithm are matching | Correct use of flowchart symbols but mismatch in flowchart and algorithm | Either Flowchart or Algorithm is missing |
| Coding Standards  (Naming Conventions,  Indentation, Comments) | All 3 ensured | Any two ensured | Any one ensured |
| Output as per Expectation  (Attach output screenshot and filled the table) | Attached screenshot of output and filled the table | Attached screenshot of output but not filled the table | Neither Screenshot attached nor filled the table |
| Question and Answer | Questions are answered appropriately and are well formatted | Minor mistakes in answers and moderately formatted | Either not answered or clarity of answer is not apparent |

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|  | **Practical** |
| **Program: 1.1** | Write a C++ program that will print output in the following form. Make  sure your output looks exactly as shown here (including spacing, line  breaks, punctuation, and the title and author). |
| **Code** |  |
| **Output** |  |
| **Questions** | 1. Differentiate between \n and endl in two points in below   given tabular format:   |  |  |  | | --- | --- | --- | | Sr. No. | \n | endl | | 1 |  |  | | 2 |  |  | |
| **Program: 1.2** | Write a program to create the following table by making use of endl and  setw manipulator. |
| **Code** |  |
| **Output** |  |
| **Questions** | 1. Explain any three manipulators in the below given tabular format.  |  |  |  | | --- | --- | --- | | Sr. no. | Manipulator | Description | | 1. | setw() | It is used to set the field width in output operations. | | 2. | scientific |  | | 3. |  |  | |

Sign: Grade: