

Note: There are three sections in this paper i.e. A, B & C.

VERSION : A

- Instructions: • Please attempt Section-A on the MCOs Answer Sheet only.
 • Only black ball point or marker may be used for shading the relevant circle.
 • Please make sure that there is no cutting, over writing, erasing, or multiple circles shading.

Time Allowed: 20 Minutes

"Section-A"

Marks: 15

Q.1. Choose the correct option i.e. A, B, C or D.

- The most recently launched operating system of Microsoft is _____.
☐ A Windows NT ☐ B Windows 98 ☒ C Windows 11 ☐ D DOS
- DOS stands for _____.
☐ A Doctor of System ☐ B Disk Operating Schemes ☐ C Document of System ☒ D Disk Operating System
- The first step in SDLC is _____.
☒ A Planning ☐ B Development and documentation ☐ C Problem Identification ☐ D Analysis
- All the activities that make a software system available for use is called software _____.
☒ A Deployment ☐ B Available ☐ C Analysis ☐ D Development
- What does the given expression evaluate to: $E = 6 + 5 * 4 \% 3$
☐ A 11 ☐ B 1 ☐ C 9 ☒ D 8
- In C++ language char ch = '3' represents _____.
☐ A A digit ☐ B An integer constant ☒ C A character constant ☐ D A word
- _____ is not a looping statement in C++.
☐ A While ☐ B Do ☐ C For ☒ D Until
- _____ is selection statement in C++
☐ A goto ☐ B break ☐ C exit ☒ D switch
- Float x [12] defines one dimensional array of type _____.
☐ A Char ☐ B Integer ☐ C String ☒ D Float
- _____ header file must be included to use string stream.
☐ A <iostream> ☒ B <sstream> ☐ C <string> ☐ D <sstring>
- Arguments of functions are separated with _____.
☒ A Comma (,) ☐ B Semicolon (;) ☐ C Colon (:) ☐ D Hyphen (-)
- The variables defined usually at the top of a program before the main () function are:
☐ A Local ☐ B Static ☒ C Global ☐ D None
- & is the _____ operator.
☒ A Reference ☐ B Dereference ☐ C Arithmetic ☐ D global
- An object of a class can be defined as "a variable of type _____.
☐ A Int ☐ B Float ☒ C class ☐ D character
- eof stands for _____.
☐ A Errors-on -file ☒ B End-of- file ☐ C Exit- of -file ☐ D Execution- of- file

Total Time: 2:40 Hours

MAR 12th (20-1-2020)

Computer Science (Part-II)
(New Course)

Total Marks: 60

"Section-B"

Marks: 26

Q2: Write short answers to any NINE (09) of the following parts. All Parts carry equal marks.

1. Differentiate between `hof()` vs. `eof()`.
2. How objects are created to access members of a class?
3. Describe the advantages of using pointer variables.
4. Differentiate between Local Variable vs Global Variable.
5. Differentiate between Local function vs Global function.
6. Write a brief note on Concatenation of string.
7. Write a program using 'for' loop that prints product of all odd numbers from 1 to 10.
8. Define loops. What are the three types of basic loops in C++?
9. Evaluate: `(false && true) || true`.
10. What is the role of Project Manager in SDLC?
11. Write only the names of different phases of SDLC.
12. Write short note on Embedded operating system.

"Section-C"

Marks: 24

Answer any THREE (3) questions. All questions carry equal marks.

Q03: What is an operating system? Explain the following:

(a) Batch processing OS (b) Time sharing OS (c) Real time OS

Q04: Briefly explain Type Casting Operator and its two types.

Q05: Write a C++ program to copying string using `strcpy()` function.

Q06: What is meant by the term pointer initialization? Write a simple program to illustrate this concept.