

ESKPXII-XXV (I)
COMPUTER SCIENCE PART-II

Time Allowed: 3 Hrs

Marks: 75

Note: There are **Three Sections** in this paper i.e. A, B and C. Attempt Section-A and return it to the Superintendent within the given time. No marks will be awarded for **Cutting, Erasing and Overwriting.**

Mobile Phone is strictly prohibited in Examination Hall.

Time: 20 Minutes

SECTION "A"

Marks: 15

Q.1. Choose the correct option and shade one of (A, B, C, D) in the given **Bubble Answer Sheet.**

- i.** Which type of software enables you to solve specific problems or perform specific tasks?
(A) System software (B) Operating system (C) Utility software (D) Application software
- ii.** The _____ determines whether the project should go forward.
(A) Feasibility (B) Problem Identification (C) System Evaluation (D) Program Specification
- iii.** Which of the following languages is a subset of C++ language?
(A) C language (B) Java language (C) VB language (D) C# language
- iv.** In C++ language char ch = '3' represents:
(A) A digit (B) An integer constant (C) A character constant (D) A word
- v.** The location number of an item in an array is called _____.
(A) Data (B) Value (C) Index (D) Constant
- vi.** Which of the header file must be included to use string stream?
(A) <iostream> (B) <string> (C) <sstring> (D) <sstream>
- vii.** Which of the following is selection statement in C++?
(A) break (B) goto (C) exit (D) switch
- viii.** Which of the following is not a looping statement in C++?
(A) while (B) until (C) do (D) for
- ix.** We declare a function with _____ if it does not have any return type.
(A) long (B) double (C) void (D) int
- x.** Variable inside parenthesis of functions declarations have _____ level access.
(A) Local (B) Global (C) Module (D) Universal
- xi.** The name of destructor is always preceded by the symbol _____.
(A) + (B) % (C) - (D) ~
- xii.** A text file has the extension _____.
(A) .doc (B) .docx (C) .txt (D) .bin
- xiii.** eof stands for _____.
(A) errors-on-file (B) end-of-file (C) exit-of-file (D) Execution of file
- xiv.** A collection of data items of the same data types placed in contiguous memory locations is called _____.
(A) Record (B) Array (C) Program (D) File
- xv.** Arguments of a functions are separated with _____.
(A) Comma (,) (B) Semicolon (;) (C) Colon (:)
(D) Hyphen (-)

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Time: 2 Hours 40 Minutes

SECTION "B"

Marks: 36

Q.2. Give short answers to any NINE (09) questions. All questions carry equal marks.

- i. Differentiate between constructor and destructor.
- ii. Write a C++ program that takes a number from user and finds whether that number is even or odd using if-else condition.
- iii. What is file handling? Explain.
- iv. Define software development life cycle (SDLC).
- v. How and where real-time operating system is used?
- vi. Write a C++ program to find out the roots of a quadratic equation.
- vii. Differentiate between algorithm and pseudo code.
- viii. Differentiate between local and global variables.
- ix. Define the term pointer.
- x. Differentiate between break and exit().
- xi. What are reserved words in C++? Write at least 6 reserved words of C++ language.
- xii. Differentiate between Built-in function and User defined function.

SECTION "C"

Marks: 24

Note: Attempt any THREE (03) questions from the following. Each question carries equal marks.

- Q.3.** Write a program using *for loop* that prints product of all odd numbers from 1 to 10.
- Q.4.** What is function in C++ language? Write the components of a user-defined function. Explain your answer with the help of a C++ program.
- Q.5.** What is function overloading? Explain with the help of a C++ program.
- Q.6.** What is file handling? Explain it in detail.