

ESKPXII-XXIV (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.** A process consists of five states; i.e. new, ready, running, block and _____
(A) Exit (B) Admit (C) Create (D) Wait
- ii.** _____ is a multitasking, multi-user system for servers, desktops and laptops developed in 1969 at Bell labs.
(A) Mac OS (B) Windows (C) UNIX (D) DOS
- iii.** _____ is not an operating system.
(A) LINUX (B) ACCESS (C) UNIX (D) DOS
- iv.** First step in the system development life cycle is _____
(A) Analysis (B) Design (C) Feasibility study (D) Planning
- v.** System maintenance is performed in response to _____.
(A) Business changes (B) Hardware and software changes (C) User's request for additional features (D) All of these
- vi.** Which of the following is a ternary operator?
(A) ?: (B) <= (C) ! (D) None of these
- vii.** In C/C++ language, hexadecimal number is represented by writing _____ symbol.
(A) X (B) OX (C) OXX (D) None of these
- viii.** Every C++ program must have at least _____ function.
(A) 1 (B) 2 (C) 3 (D) None of these
- ix.** Which of the following is selection statement in C++?
(A) Break (B) Goto (C) Exit (D) Switch
- x.** Each repetition of a looping statement is called _____.
(A) Iteration (B) Continue (C) Repetition (D) None of these
- xi.** An array of characters is called _____.
(A) String (B) Integer (C) Character (D) None of these
- xii.** Using _____, we can declare multiple functions with the same name having slightly different purpose.
(A) Function overriding (B) Function overloading (C) Function call (D) None of these
- xiii.** A variable of type _____ is called object.
(A) Pointer (B) Class (C) Integer (D) Float
- xiv.** In file handling, the header file _____ is used.
(A) <fstream.h> (B) <ifstream.h> (C) <ofstream.h> (D) None of these
- xv.** & is the _____ operator.
(A) Reference (B) Dereference (C) Preference (D) None of these

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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. Define an operating system.
- ii. What are the objectives of SDLC?
- iii. What is an algorithm? Write an algorithm to find the average of three numbers.
- iv. Define Escape Sequence. What is the purpose of \n, \t, \b and \r escape sequences?
- v. What is an IDE? Briefly explain.
- vi. What is the purpose of continue statement in C++? Give examples.
- vii. Write a C++ program to find a single character 'S' in a string "Pakistan" using *find()* function.
- viii. What is built-in function? List four examples of built-in functions.
- ix. Define the term pointer.
- x. How a class is created in C++? Give example.
- xi. Differentiate between Constructor and Destructor.
- xii. Write a C++ program to get four subjects marks of a student and then calculate its total, average and percentage, show result on screen.

SECTION "C"

Marks: 24

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

- Q.3. What is process? Explain five state process model with the help of a block diagram.
- Q.4. Write a C++ program that prints numbers from 1 to 50 in such a way that there should be 10 digits per line using while loop.
- Q.5. Define two dimensional array. Write a C++ program to access the elements of a two dimensional array.
- Q.6. What is function overloading? Explain with the help of a C++ program.