Time allowed: 3 Hrs   **Computer Science (Part – II)**   **Marks: 75**

Fresh / Reappear

Note: There are three sections of the paper, A, B & C. Attempt Section – A on the same paper and return it to the Superintendent within the given time. Mobile phone etc. are not allowed in the examination hall.

Time: 20 Mins   **Section "A"**   **Marks: 15**

Q.1   Write the correct choice i.e. A, B, C or D in the empty box provided opposite to each part. No marks will be awarded for cutting, rubbing or over-writing.

I.   A text file has the extension ....   **A**

  A. .doc   B. .docx   C. .txt   D. .bin

II.   The name of destructor is always preceded by the symbol ....   **D**

  A. #   B. %   C. +   D. ~

III.   (True && False) is false   **B**

  A. True   B. False   C. Both A and B   D. None of these

IV.   The operator used to get value at address stored in a pointer variable is ....   **A**

  A. *   B. &   C. &&   D. ||

V.   * is the .... operator which can be read as "Valued pointed by" operator.   **B**

  A. Reference   B. Dereference   C. Both A & B   D. None of these

VI.   Variables inside parenthesis of functions declarations have .... level access,   **A**

  A. Local   B. Global   C. Module   D. Universal

VII.   Char y[10] defines one dimensional array of type ....   **C**

  A. Integer   B. Float   C. Character   D. None of these

VIII.   float[100][365][60][65] is an example of .... array.   **D**

  A. One Dimensional   B. Two Dimensional   C. Three Dimensional   D. Multi Dimensional

IX.   .... is not a jump statement in C++.   **A**

  A. break   B. goto   C. exit   D. switch

X.   && is the .... operator.   **C**

  A. Math   B. Reference   C. And   D. Or

XI.   "Pakistan" is a .... constant.   **D**

  A. Integer   B. Character   C. Float   D. String

XII.   Header file for put() is ....   **C**

  A. string.h   B. conio.h   C. stdio.h   D. None of these

XIII.   .... is not an operating system.   **B**

  A. Linux   B. MS Word   C. UNIX   D. Windows XP

XIV.   The extension of C++ program is ....   **D**

  A. .exe   B. .c   C. .obj   D. .cpp

XV.   DOS stands for ....   **C**

  A. Doctor of system these   B. Document of System   C. Disk Operating System   D. None of these

Section "B"

Marks: 36

Q.2 Attempt any NINE parts. All parts carry equal marks.

I. Compare Windows and UNIX operating systems.

II. Differentiate Single-user and Multi-user operating systems.

III. What are the objectives of SDLC?

IV. What is precedence of operators?

V. Differentiate break statement and exit() function.

VI. Explain for loop with the help of flowchart.

VII. How string is initialized in C++?

VIII. Explain strcat() function with the help of C++ program.

IX. Explain static variable with the help of C++ program.

X. What are Destructors?

XI. How objects are created to access members of a class?

XII. Describe different types of file?

Section "C"

Marks: 24

Note: Attempt any THREE questions. All questions carry equal marks.

Q.3 Why SDLC is important for the development of software?

Q.4 Write a C++ program to get the age of a student from the user at run time and display it on the screen.

Q.5 Write a C++ program to find the transpose of a matrix M[3][3].

Q.6 Write note on the following.

     a. Five State Process Model

     b. Data hiding