Sig. of Supdt........................

Roll No...........................

Fic. No...................................

Fic. No...................................

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. No marks will be awarded for cutting, erasing or over writing. Mobile phone etc. are not allowed in the examination hall.

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

Q.1   Write the correct option i.e. A, B, C or D in the empty box provided opposite each part.

i.   A process is said to be in ....state if it is waiting for some events to happen.

  A. Running   B. Ready   C. Block   D. Exit

ii.   Which of the following is not a valid variable name in C++?

  A. x1   B. y1   C. x1y1   1x1y

iii. Which header file must include in C++ program to use cin() function?

  A. <stdio.h>   B. <conio.h>   C. <isotream.h>   D. All of these

iv.   Integer constant takes ....bytes of memory.

  A. 2   B. 4   C. 8   D. 10

v.   Conditional operator is represented by ....

  A. #   B. %   C. ?:   D. @

vi.   The equal expression of a+ = b is ....

  A. a = a + b   B b = b + a   C. a = b   D. a + b = a

vii. Each element in one dimensional array has its own ....

  A. Index   B. Two index   B. Three index   D. Zero index

viii. A function returns ....value(s).

  A. 1   B. 2   B. 3   D. 4

ix.   Loop within another loop is called ....

  A. For loop   B. Nested loop   C. Inner loop   D. Outer loop

x.   In a[5] = {3,2,4,8,7}, the cout<<a[3]; will display ....

  A. 3   B. 2   C. 4   D. 8

xi.   A class consist of ....

  A. Data member   B. Member function   C. Both A and B   D. None

xii. Which of the following is a valid case statement in a switch statement?

  A. case 1:   B. case a + b   C. case a<b: D. case a=b:

xiii. For a=2 and b=2 which of the following evaluates as true?

  A. a=b   B. a<b   C. a>b   D. a<=b

xiv. ....function is used if you want to end a line.

  A. endln   B. endl   C. endline   D. All of these

xv.   ....is a conditional statement.

  A. If statement   B. Printf() statement   C. Scanf() statement   D. None of these

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Section "B"   Marks: 36

Q.2 Attempt any NINE parts. Each part carries equal marks.

i. What is meant by multiprocessor operating system?

ii. What is flowchart? Write down its various symbols.

iii. Discuss conditional operator.

iv. Write a short note on beak and continue statements.

v. What is the difference between local variable and global variable?

vi. What is the difference between while loop and do while loop?

vii. Write a program in C++ to print the table of a given number.

viii. What are the modes of opening a file in C++?

ix. What is the purpose if inline function?

x. What is the purpose of using pointer?

xi. What is the purpose of cin() and cout() functions in C++?

xii. How an array be initialized in C++?

Section "C"   Marks: 24

Note: Answer any THREE questions. Each question carries 8 marks.

Q.3 What is real time operating system? Explain its features.

Q.4 i. Write down the syntax of switch statement.

   ii. Write a program that read an alphabet and print on the screen whether it is vowel or consonant.

Q.5 Write a short note on:

   i. Constructor and destructor

   ii. Private access specifier and public access specifier