# **COMPUTER SCIENCE HSSC-II**

Time allowed: 2:40 Hours Total Marks Sections B and C: 62

### SECTION - B (Marks 42)

## Q. 2 Answer the following questions briefly.

14x3=42

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(i)	Write down any three features of Multi-user Operating System.	03	OR	How is an argument pass by value different from an argument pass by reference?	03
(ii)	Describe any three objectives of SDLC.	03	OR	How is multi-threading different from multi-tasking? Give any three reasons.	03
(iii)	Briefly explain the three steps of requirement engineering phase of SDLC.	03	OR	Write down any three differences between post-tested and pre-tested loops with example.	03
(iv)	Write down the use of string stream in file handling.	03	OR	How is a project manager responsible for planning execution and closing of a project?	03
(v)	Rewrite the following for loop into do-while loop.  for(int n=0;n<10;n++)  cout< <n<<"";< td=""><td>03</td><td>OR</td><td>Briefly explain the concept of two-dimensional array with an example.</td><td>2+1</td></n<<"";<>	03	OR	Briefly explain the concept of two-dimensional array with an example.	2+1
(vi)	Write down the purpose of <b>sizeof()</b> function in array.	03	OR	Write down the output of the following code-segment.  int p,q,r; p=10; q=3; if(p%q==3) r=0; else r=1; cout< <r;< td=""><td>03</td></r;<>	03
(vii)	Write a c++ code that prints sum of following. int arr[10]={1,2,3,4,5,6,7,8,9,10};	03	OR	Differentiate between <b>strlen()</b> and <b>strcat()</b> functions with an example.	2+1
(viii	Briefly explain how a pointer variable is declared by using an example.	03	OR	Write down a piece of code in c++ that shows the use of inline function.	03
(ix)	Write a piece of code that shows how a string copies into another string using <b>strcpy()</b> function.	03	OR	Given the array definition:  float a[5]={1,2,3}; a. How many elements are there in the array? b. What are the values of the first and last elements?	1+2
(x)	Differentiate local and global variables.	03	OR	Briefly explain the concept of data hiding in c++.	03
(xi)	Explain the difference between the following statements if P is a pointer variable:  cout< <p; cout<<*p;<="" td=""><td>03</td><td>OR</td><td>Write down the use of function overloading in terms of:  Number of arguments  Datatypes of arguments  Return types</td><td>03</td></p;>	03	OR	Write down the use of function overloading in terms of:  Number of arguments  Datatypes of arguments  Return types	03
(xii)	How is constructor different from destructor?	03	OR	Write a c++ code that reads 03 characters from user and stores them in a file.	03
(xiii	How is a binary file different from a text file in c++?	03	OR	Briefly explain the concept of polymorphism with daily life example.	2+1
(xiv	Rewrite the following code by using the conditional operator:  if(a==b)  cout<< "equal"; else cout<< "Not equal";	03	OR	Write down the output of the following code: int i,j,k; for(i=0,j=2,k=1;i<=2;i++) cout< <i+j+k;< td=""><td>03</td></i+j+k;<>	03

## SECTION – C (Marks 20)

#### Note: Attempt the following questions.

(5x4=20)

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Q.3	Why is feasibility study important? Discuss any four types of it.	1+4	OR	Write down the use of type casting in c++. Briefly explain two types of casting with example.	2+2 +1
Q.4	Write down a c++ program by using class that input two values using a member function of a class named <b>input()</b> , then display the sum of two values by using another member function named <b>show()</b> .	2+2 +1	OR	What is the purpose of <b>setw</b> in c++? Also compare the use of <b>setw</b> and <b>endl</b> manipulators in c++.	2+2 +1
Q.5	Explain use of <b>exit()</b> function in c++ with an example.	4+1	OR	Write a c++ program that prints all the positive odd numbers upto 30 skipping those that are divisible by 5 using continue statement.	05
Q.6	Explain the concept of function. Also explain the use of function definition and function call with the help of examples.		OR	Name four functions of operating system and explain any two functions in detail.	2+2 +1

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