COMPUTER SCIENCE HSSC–II
SECTION – A (Marks 15)

Time allowed: 20 Minutes

NOTE: Section–A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1   Circle the correct option i.e. A / B / C / D. Each part carries one mark.

(i)   An IDE typically consists of _____

    A.   Text editor   B.   Compiler   C.   Debugger   D.   None of these

(ii)   The process of converting source code into object code is known as _____

    A.   Compiling   B.   Executing   C.   Linking   D.   Saving

(iii)   Conio stands for_____

    A.   Character Input Output   B.   Console Input Output
    C.   Common Input Output   D.   Complex Input Output

(iv)   Which of the following is **NOT** an example of a program bug?

    A.   Run-time error B.   Operator error C.   Syntax error   D.   Logical error

(v)   A memory location with some data that can be changed is called _____

    A.   Constant   B.   Variable
    C.   Named constant   D.   None of these

(vi)   What happens when the result of a calculation exceeds the capacity of data type?

    A.   Syntax error   B.   Logical error   C.   System error   D.   Overflow

(vii)   The expression 3% 5 has a value equal to_____

    A.   3   B.   5   C.   0   D.   None of these

(viii)   Which operator is used in a compound condition to join two conditions?

    A.   Relational Operator   B.   Logical Operator
    C.   Relational Results   D.   Logical Results

(ix)   An ampersand before the name of a variable denotes _____

    A.   Actual Value   B.   Variable Name C.   Address   D.   Data Type

(x)   Operators used to compare operands and decide whether the relation is true or false are called_____

    A.   Arithmetic Operators   B.   Logical Operators
    C.   Syntax Operators   D.   Relational Operators

(xi)   _____is a control structure that causes a statement or group of statements to repeat.

    A.   Decision Statement   B.   Loop
    C.   Sequential   D.   None of these

(xii)   Function prototype for built-in functions are specified in _____

    A.   Source file   B.   Library file   C.   Object file   D.   Image file

(xiii)   Which of the following functions is used to write a string to a file?

    A.   puts ( )   B.   put c ( ).   C.   f puts ( )   D.   f get s ( )

(xiv)   A category of data or information that describes an entity is called a / an _____

    A.   Attribute   B.   Data item   C.   Record   D.   Tuple

(xv)   Which of the following components of physical database design refer to the correctness and consistency of data?

    A.   Indexes   B.   Integrity constraint
    C.   File Organization   D.   Data Distribution Strategy

For Examiner's use only:

Total Marks: | 15 |

Marks Obtained:

COMPUTER SCIENCE HSSC–II

Time allowed: 2:40 Hours   **Total Marks Sections B and C: 60**

NOTE: Answer any **thirteen** parts from Section 'B' and any **three** questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet–B if required. Write your answers neatly and legibly.

SECTION – B (Marks 39)

Q. 2   Answer any **THIRTEEN** parts. The answer to each part should not exceed 5 to 6 lines.   (13 x 3 = 39)

     (i)   What is meant by Machine independence?

     (ii)   What is the use of "include" preprocessor?

     (iii)   Explain the main function used in C program.

     (iv)   What do you mean by delimiters?

     (v)   Describe the standard identifiers. Also give examples.

     (vi)   What are the character constants? Give examples.

     (vii)   What are Operators?

     (viii)   Define the implicit type casting.

     (ix)   What is the use of field width specifiers in C language?

     (x)   Write any three advantages of using a form.

     (xi)   Write the syntax of if else if statement.

     (xii)   Write a program that inputs a number from user and finds whether it is even or odd using if else structure.

     (xiii)   What is do while loop? Also write its syntax.

     (xiv)   What is the scope of local variable?

     (xv)   What is function declaration or function prototype?

     (xvi)   Describe briefly the use of file pointer.

     (xvii)   What is meant by redundancy?

SECTION – C (Marks 21)

Note: Attempt any **THREE** questions. All questions carry equal marks.   (3 x 7 = 21)

Q. 3   **a.**   What is meant by type casting? Explain explicit type casting.   **(04)**

     b.   What are comments? Describe its types.   **(03)**

Q. 4   Write detailed notes on Queries and Repots.   **(07)**

Q. 5   **a.**   What is "for" loop? Explain its working. Also write its syntax.   **(03)**

     b.   Write a program that displays a message "Best of Luck" on screen using function.   **(04)**

Q. 6   Write a program that inputs a character from the user and checks whether it's a vowel or a consonant, using switch statement.   **(07)**