COMPUTER STUDIES   HSSC–II
SECTION – A (Marks 10)

Time allowed: 15 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 15 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)   When CPU executes an instruction, which of the following happens first?

    A.   Instruction Fetch   B.   Execute Instruction

    C.   Instruction Decode   D.   None of these

(ii)   A bit can represent _____ values.

    A.   0   B.   1

    C.   2   D.   4

(iii)   Monitor capabilities are described in terms of all of the following **EXCEPT** _____

    A.   Colour   B.   Speed

    C.   Resolution   D.   Size

(iv)   The main function of a computer is to _____

    A.   Convert information into storage   B.   Convert data into information

    C.   Display data   D.   Create data from information

(v)   The smallest addressable unit of storage on a disk is called a _____

    A.   Format   B.   Track

    C.   Sector   D.   Byte

(vi)   In Assembly language, _____ are used instead of binary code.

    A.   Object Codes   B.   Mnemonics

    C.   Pass codes   D.   Operators

(vii)   Numbers are stored and transmitted inside a computer in _____

    A.   Binary form   B.   Decimal form

    C.   Alphanumeric form   D.   All of these

(viii) A pictorial representation of the steps involved in an algorithm is called a / an _____

    A.   Flow Chart   B.   Data flow diagram

    C.   Algorithm diagram   D.   None of these

(ix)   Non-executable statement is _____

    A.   REM   B.   NAME

    C.   CLS   D.   RENUM

(x)   In hexadecimal number system, C is equal to _____ decimal number.

    A.   10   B.   11

    C.   18   D.   None of these

For Examiner's use only:

Total Marks: 10

Marks Obtained: ⬚

COMPUTER STUDIES   HSSC–II

Time allowed: 2:15 Hours   **Total Marks Sections B and C: 40**

NOTE: **Answer any eight parts from Section 'B' and any two 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 24)

Q. 2   **Answer any EIGHT parts. The answer to each part should not exceed 3 to 4 lines.**   (8 x 3 = 24)

(i)   Identify two alternatives to a Mouse.

(ii)   Why is RAM called volatile?

(iii)   Write down the advantages of Non-impact printers over Impact printers.

(iv)   What is the use of Register?

(v)   Differentiate between Runtime and Logical errors.

(vi)   List several ways in which you interact with computers in your daily life.

(vii)   What is the use of language translators?

(viii)   How is 1's complement of binary number calculated?

(ix)   Convert the following arithmetic statements into BASIC statements:

   a. $A^2 + 2AB + B^2$

   b. $2(A - B)^2 + (3D)^2$

   c. $\dfrac{X+Y}{a-b}$

(x)   Why is resolution important when using a scanner?

(xi)   What is electronic data processing?

SECTION – C (Marks 16)

Note: **Attempt any TWO questions. All questions carry equal marks.**   (2 x 8 = 16)

Q. 3   What is Program and Programming Language? Discuss different types of Programming Languages.

Q. 4   Calculate the following using 8-bit 2's complement method:

   a.   38 – 29

   b.   45 – 63

Q. 5   Discuss the different types of storage devices commonly used in a computer.