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

Time allowed: 15 Minutes

| Version Number | 4 | 1 | 7 | 1 |

Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which 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   Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.

1) Which of the following computers is specially designed to meet the requirements of **ONLY** one person at a time?
   - A. Mainframe computer
   - B. Miniframe computer
   - C. Micro computer
   - D. Super computer

2) Semiconductor memory chips that retain their content without constant electron refreshing are called:
   - A. Dynamic RAM
   - B. Dynamic ROM
   - C. Static ROM
   - D. Static RAM

3) The operations of Arithmetic Logic Unit are directed by:
   - A. Program
   - B. Control Unit
   - C. ALU
   - D. Memory Unit

4) Which of the following translates source code into machine code, converting whole program at once?
   - A. Compiler
   - B. Interpreter
   - C. Converter
   - D. Editor

5) The number FF in hexadecimal system is equal to _____ in decimal system.
   - A. 256
   - B. 255
   - C. 240
   - D. 254

6) The rectangle symbol in flow charts is used to indicate a:
   - A. Process
   - B. Condition
   - C. Input
   - D. Output

7) When a BASIC language program starts, variable used in the program are created in?
   - A. ROM
   - B. CPU
   - C. RAM
   - D. HDD

8) Which of the following data type is **MOST** suitable for storing a name?
   - A. Integer variable
   - B. Character variable
   - C. Name variable
   - D. String variable

9) For $A = 4$ and $B = 4$, which of the following evaluates as **TRUE**?
   - A. $A <> B$
   - B. $A < B$
   - C. $A > B$
   - D. $A >= B$

10) Another term used for decision making statements in GW-Basic is?
   - A. Selection statements
   - B. Sequential statements
   - C. Repetition statements
   - D. Iteration statements

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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)   Write a short note on super computers.

(ii)   Differentiate between Mainframe and Miniframe computers.

(iii)   Differentiate between SRAM and DRAM.

(iv)   Differentiate between CRT and LCD monitors.

(v)   List any six input devices.

(vi)   Briefly discuss basic units of data storage.

(vii)   Differentiate between high level languages and low level languages?

(viii) Perform the following conversions:

   (a) $(119)_{10} = (?)_8$ (b) $(7551)_{10} = (?)_{16}$

(ix)   Differentiate between flowcharts and Algorithms?

(x)   What are logical operators in BASIC language?

(xi)   Point out errors in the following program:

```
10      CLS
20      PRINT "Enter a Number
30      IN a
40      FOR b=1 AND 10
50      PRINT b
60      NEXT b
70      END
```

SECTION – C (Marks 16)

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

Q. 3   What are different types of computers? Explain with examples.

Q. 4   What are printers? Explain different types of printers.

Q. 5   Write a program to input a number and check if it is "PRIME" or "COMPOSITE".

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