☆☆☆☆ Roll No ___ to be filled in by the candidate

HSSC-(P-I)-A/2023

Paper Code	6	8	3	7

Computer Science (Objective)

(For All Sessions)

Time: 20 Minutes Marks : 15

Rwp-11-23

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided.

1.1. Which technology is used to read data on cheques:

(A) OMR (B) MICR (C) OCR (D) CAT

2. CPU is an example of:

(A) Software (B) A program (C) Hardware (D) An output unit

3. Cache memory works between:

(A) RAM and ROM (B) MMU and Hard disk (C) CPU and RAM (D) CPU and Hard disk

4. The order of stack is:

(A) FIFO (B) GIGO (C) FIGO (D) LIFO

5. A virus that replicates itself is called:

(A) Worm (B) Bug (C) Bomb (D) Vaccine

6. The maximum number of primary partitions that can be created on a disk are:

(A) Two (B) Three (C) Four (D) Five

7. Clipboard stores _____

(A) Copied text (B) Deleted text (C) Entered text (D) Repeated text

8. A built-in formula is known as:

(A) Update (B) Procedure (C) Calculate (D) Function

9. The format of an email address is

(A) User name # DNS Address (B) User name @ DNS Address (C) User name $ DNS Address (D) User name ! DNS Address

10. The name for screen clarity

(A) Discrete (B) Pixel (C) Resolution (D) LCD

11. 1GB of memory in bytes is equal to:

(A) 2^{30} (B) 2^{20} (C) 2^{40} (D) 2^{10}

12. The protocol used over the Internet is:

(A) SNA (B) TCP/IP (C) Token-Ring (D) Ethernet

13. Which layer of OSI model does data compression?

(A) Application layer (B) Physical layer (C) Session layer (D) Presentation layer

14. The physical path over which a message travels is:

(A) Protocol (B) Signal (C) Node (D) Medium

15. Concurrent flow of bits is done in _____ transmission.

(A) Parallel (B) Serial (C) Asynchronous (D) Synchronous

Roll No _____ to be filled in by the candidate

HSSC-(P-I)-A/2023

(For All Sessions)

Marks : 60

Time: 2:10 hours

Computer Science (Subjective)

Rwp-11-23

SECTION-I

2. **Write short answers of any six parts from the following:** (6x2=12)

i. Dfine the term digital convergence.
ii. How did Information Technology make our world as global village?
iii. Write two types of plotters.
iv. Convert 32 bytes into bits.
v. Give any two uses of computer in business.
vi. What is meant by computer simulation?
vii. Describe video-conferencing.
viii. Differentiate between function and formula.
ix. Write the function to calculate the minimum value from A_1 to A_5 cells.

3. **Write short answers of any six parts from the following:** (6x2=12)

i. What is workgroup computing?
ii. Compare intranet and extranet.
iii. Write any two functions of network layer.
iv. How does FDM work?
v. What do you know about wireless modem?
vi. Define digital signal.
vii. Describe domain name system.
viii. List two advantages of email.
ix. Why newsgroups are created on the Internet?

4. **Write short answers of any six parts from the following:** (6x2=12)

i. How does cache memory work?
ii. Why does DRAM use more power?
iii. What is password?
iv. Write two ways in which data security is violated?
v. Define computer virus.
vi. What is the purpose of recycle bin?
vii. Define primary partition.
viii. What is meant by editing a document?
ix. Define paragraph formatting.

SECTION-II

Note: **Answers any three questions from the following:** (8x3=24)

5. What is video display adapter? Discuss its different types.
6. What is STAR TOPOLOGY? Explain its working with diagram. Also write its advantages and disadvantages.
7. What is data transmission mode? Explain its types with example.
8. Describe computer architecture. Discuss different components of Computer Architecture.
9. Describe CPU register. Discuss General-purpose registers.