



Roll No.

Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

## COMPUTER SCIENCE HSSC-I

### SECTION – A (Marks 15)

**Time allowed: 20 Minutes**

**NOTE:-** Section-A is compulsory and comprises pages 1-2. 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) Which of the following is used to produce hardcopy of graphs, maps and engineering drawings?
- |                 |                  |
|-----------------|------------------|
| A. Line Printer | B. Chain Printer |
| C. Plotter      | D. Scanner       |
- (ii) Which of the following is a part of CPU?
- |         |        |
|---------|--------|
| A. RAM  | B. ROM |
| C. BIOS | D. ALU |
- (iii) How many layers does the OSI model consist of?
- |      |      |
|------|------|
| A. 5 | B. 6 |
| C. 7 | D. 8 |
- (iv) Which of the following is the most important layer concerned with transmitting a stream of data over the physical cables and wires?
- |                   |                    |
|-------------------|--------------------|
| A. Physical layer | B. Data link layer |
| C. Network layer  | D. Transport layer |
- (v) Which of the following is called pointing device?
- |             |                 |
|-------------|-----------------|
| A. Keyboard | B. Mouse        |
| C. Scanner  | D. Video Camera |
- (vi) In synchronous transmission, the interval between two characters is always exactly \_\_\_\_\_
- |         |              |
|---------|--------------|
| A. Same | B. Different |
| C. Zero | D. Low       |
- (vii) Which of the following is ideal for long distance communication?
- |                            |
|----------------------------|
| A. Fibre optics            |
| B. Coaxial cables          |
| C. Microwave transmission  |
| D. Satellite communication |

- (viii) What unit is used to measure data communication speed?
- |    |       |    |         |
|----|-------|----|---------|
| A. | Hertz | B. | Kbps    |
| C. | Baud  | D. | Nibbles |
- (ix) Which of the following devices is used to connect two computers in the same building?
- |    |               |    |            |
|----|---------------|----|------------|
| A. | Modem         | B. | Fax Card   |
| C. | Ethernet Card | D. | Sound Card |
- (x) Which of the following is defined as maintaining business relationships and selling information, services and commodities by means of computer telecommunication networks?
- |    |                     |
|----|---------------------|
| A. | CAD / CAM           |
| B. | Computer Simulation |
| C. | E-Commerce          |
| D. | ISO                 |
- (xi) What does CIM stand for?
- |    |                                   |
|----|-----------------------------------|
| A. | Computer Integrated Manufacturing |
| B. | Computer International Management |
| C. | Copy In Memory                    |
| D. | Computer Intel Marketing          |
- (xii) Which is the part of the computer where actual processing takes place?
- |    |     |    |           |
|----|-----|----|-----------|
| A. | ALU | B. | CU        |
| C. | RAM | D. | Hard disk |
- (xiii) Which of the following is **NOT** a semi-conductor memory?
- |    |     |    |            |
|----|-----|----|------------|
| A. | RAM | B. | ROM        |
| C. | CD  | D. | Flash disk |
- (xiv) Which register normally functions as a 16-bit counter that controls the sequence in which the instructions are fetched from memory?
- |    |    |    |     |
|----|----|----|-----|
| A. | PC | B. | IR  |
| C. | DR | D. | DAR |
- (xv) Which of the following facilitate a number of people to use computer and its software at the same time, by connecting it to other PCs or workstations?
- |    |                       |
|----|-----------------------|
| A. | Multi-sharing         |
| B. | Multi-tasking         |
| C. | Multi-user operations |
| D. | Network operations    |

For Examiner's use only:

Total Marks:

15

Marks Obtained:



# COMPUTER SCIENCE HSSC-I

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE:- Sections 'B' and 'C' comprise pages 1-2 and questions therein are to be answered on the separately provided answer book. Answer any thirteen parts from Section 'B' and attempt any three questions from Section 'C'. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION – B (Marks 39)

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

- (i) What is TCP / IP? Explain briefly.
- (ii) What is meant by Browsing and Browsers?
- (iii) Draw a diagram of CRT and label its parts.
- (iv) What is meant by "Access Time"?
- (v) What is Data Communication? Write three basic elements of data communication system.
- (vi) How do virus spread? Write any three ways.
- (vii) What are Protocols? List its key elements.
- (viii) Differentiate between Star Topology and Ring Topology.
- (ix) Write a short note on coaxial cables.
- (x) Flat screen monitors are becoming more popular than conventional CRT monitors. Give three reasons.
- (xi) Define CAD, CAM and CIM.
- (xii) Define GUI. List four important features of windows.
- (xiii) What is meant by the term 'Virus Hoax'?
- (xiv) Why is it necessary to backup data regularly?
- (xv) What is copyright?
- (xvi) Write a short note on finding files in Windows.
- (xvii) Differentiate between E-mail Address and URLs.

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**SECTION – C (Marks 21)**

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

- |             |           |  |     |
|-------------|-----------|--|-----|
| <b>Q. 3</b> | <b>a.</b> | Write a detailed note on the disadvantages of the Internet.                    | 04  |
|             | <b>b.</b> | Write six primary domains for US Internet sites.                               | 03  |
| <b>Q. 4</b> | <b>a.</b> | Explain the following with reference to word processing:                       | 4.5 |
|             | (i)       | Word Wrap  |     |
|             | (ii)      | Headers and Footers  |     |
|             | (iii)     | Spell Checking   |     |
|             | <b>b.</b> | Write a short note on Word Processing.   | 2.5 |
| <b>Q. 5</b> | <b>a.</b> | Explain "Recycle Bin", "Desktop" and "Task Bar".                               | 03  |
|             | <b>b.</b> | Explain the Eight Data Protection Principles.                                  | 04  |
| <b>Q. 6</b> | <b>a.</b> | Define and explain the purpose of the following registers in computer systems: | 04  |
|             | (i)       | Program Counter (PC)   |     |
|             | (ii)      | Instruction Register (IR)  |     |
|             | <b>b.</b> | Explain three types of Data Communication Modes.                               | 03  |

— 1H A-1012 —