COMPUTER SCIENCE HSSC–I

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) Which of the following is a component of LAN?

   A. Cable   B. NIC   C. Bridge   D. All of these

(ii) Each computer on network is called a _____.

   A. Bus   B. Terminator   C. Node   D. None of these

(iii) Internet surfing is an example of _____.

   A. Simplex   B. Half duplex   C. Full duplex   D. All of these

(iv) Which of the following devices uses parallel transmission?

   A. Printer   B. Key-board   C. Mouse   D. None of these

(v) Sound, light and radio waves are examples of _____.

   A. Digital signal   B. Analog signal   C. Hybrid signal   D. All of these

(vi) CBT stands for _____.

   A. Computer Based Trade   B. Computer Based Training

   C. Computer Based Technology   D. None of these

(vii) The step that obtains the next instruction from memory is called _____.

   A. Read   B. Fetch   C. Get   D. Decode

(viii) A set of electrical path used to transfer data is called _____.

   A. Bus   B. Register   C. Pluse   D. None of these

(ix) Which of the following is faster?

   A. RAM   B. Cache   C. Register   D. Hard disk

(x) A virus that replicates itself is called _____.

   A. Bug   B. Worm   C. Bomb   D. Hoax

(xi) The tool used to find a similar word in a document is called _____.

   A. Finder   B. Thesaurus   C. Dictionary   D. Find and Replace

(xii) In a spread sheet, columns are labelled _____.

   A. By letters   B. By numbers

   C. By cell reference   D. None of these

(xiii) A block of cells in spreadsheet called _____.

   A. Range   B. Column   C. Function   D. Table

(xiv) A computer can be linked to the Internet through _____.

   A. DSL   B. Cable Modem   C. Phone Modem   D. All of these

(xv) In a computer network all computers use an operating system _____ to make it all work.

   A. LAN   B. WAN   C. NOS   D. STAR

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: 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 x3 = 39)

(i)   Differentiate between System software and Application software.

(ii)   Define the working of Scanner.

(iii)   Write a brief note on Non-impact printers.

(iv)   Define Static and Dynamic memory devices.

(v)   Differentiate between Narrow Band and Broad Band.

(vi)   What is Thesaurus?

(vii)   Define Workgroup computing. Give its two disadvantages.

(viii) Compare the features of BUS and START topologies.

(ix)   What is OSI?

(x)   What is the purpose of Instruction Register (IR) in the computer system?

(xi)   How can we protect our data from viruses?

(xii)   What are the rules to set names for file and folder in Windows?

(xiii) Define the sign up process on any web mail facility.

(xiv)   Define Cycle Time.

(xv)   What are the important features of MS-Word program?

(xvi)   Define WAN with example.

(xvii) Write a short note on Main Memory.

SECTION – C (Marks 21)

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

Q. 3   a.   Why and when do we use Fibre Optic for communication?   **(4)**

b.   What is Computer Bus? What are its functions?   **(3)**

Q. 4   a.   What is meant by Copyright? Explain   .   **(3)**

b.   What are the eight Data Protection Principles?   **(4)**

Q. 5   Define Modulation. Name and describe any three forms / methods of modulation with the help of diagrams.   **(7)**

Q. 6   Explain how computer can be useful in Education.   **(7)**