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 separately provided OMR Answer Sheet which 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 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) The I/O processors can run _____ with/of the CPU.
   A. In parallel   B. Collective   C. In serial   D. In advance

2) Another name of main memory is:
   A. Secondary memory   B. Disk storage
   C. Internal memory   D. Tape storage

3) Laser printer is an example of:
   A. Non-Impact   B. Chain   C. Impact   D. Inkjet

4) Which OSI layer provides reliable and transparent transfer of data packets between computers?
   A. Session layer   B. Presentation layer
   C. Physical layer   D. Transport layer

5) Which organization developed standards for international and national data communication?
   A. IEEE   B. ISO   C. OSI   D. SIO

6) Each computer on a network is called:
   A. BUS   B. HUB   C. SERVER   D. NODE

7) The physical layout of a LAN is known as:
   A. Local Area Network   B. Topology
   C. Link   D. Ring

8) OSI reference model has:
   A. Four layers   B. Eight layers   C. Seven layers   D. Six layers

9) A collection of related web pages is called:
   A. Web page   B. Internet   C. Linking   D. Web site

10) Transferring information from computer to internet is called:
    A. Downloading   B. Browsing   C. Uploading   D. Pasting

11) This type of transmission is sometimes called start/stop transmission:
    A. Asynchronous   B. Synchronous
    C. Serial transmission   D. Pulse

12) Microwave, coaxial and fibre optic are the examples of:
    A. Modems   B. Topology   C. Routers   D. Transmission media

13) Which of the following is fastest?
    A. RAM   B. Cache   C. Registers   D. Hard disk

14) In which of following ways can text NOT be aligned?
    A. Left   B. Right   C. Center   D. Top

15) The symbol B2:E2 is known as:
    A. Formula   B. Function   C. Range   D. Cell address

COMPUTER SCIENCE HSSC-I

Time allowed: 2:40 Hours

Total Marks Sections B, C and D: 60

NOTE: The Questions of sections B, C and D are to be answered on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 21)

Note: Section – B consists of following topics of the syllabus:

a.	Basic concepts of IT	b.	Data Communication
c.	Hardware and System Software	d.	Information Networks
e.	Applications and use of computers		

Q. 2 Answer any SEVEN parts. All parts carry equal marks. (7 x3 = 21)

(i)   What are I/O processors? Why are these used?

(ii)   What are dynamic memory devices? Briefly explain with examples.

(iii) Briefly define the functions of protocols?

(iv)   Explain the working of Transport and Physical layer of OSI model.

(v)   What are the advantages of Packed switched network?

(vi)   Write down the advantages of microwave transmission.

(vii) Explain dedicated server computer network.

(viii) Explain computer simulation with the help of an example.

(ix)   What are the functions performed by an operating system (OS)?

(x)   What are the basic elements of a data communication model?

SECTION – C (Marks 21)

Note: Section – C consists of following topics of the syllabus:

a.	Security copyright and the law	b.	Operating systems (Windows)
c.	Word processing (using MS-Word 2000)	d.	Spreadsheet (Using MS-Excel 2000)
e.	Internet, Internet browsing and E-mail		

Q. 3 Answer any SEVEN parts. All parts carry equal marks. (7 x3 = 21)

(i)   Why is data protection important? Give solid reasons.

(ii)   What are the rules for File/Folder in a Word document?

(iii) How are Header and Footer added in a Word document?

(iv)   Differentiate Work book and Work sheet in MS Excel 2000.

(v)   Briefly describe the method to 'bookmark' a web page.

(vi)   Briefly describe the method to customize the 'column width' and 'cell height' in MS Excel 2000.

(vii) Write down the steps to install/add a printer in windows.

(viii) What is the use of file compression?

(ix)   What are virus hoaxes?

(x)   How is the page margin set in MS Word document?

SECTION – D (Marks 18)

Note: Attempt any THREE questions. All questions carry equal marks. (3 x 6 = 18)

Q. 4 What is a network topology? What are their different types? Explain the working of STAR topology along with advantages and disadvantages. (1+1+4)

Q. 5 Compare the features of fibre optic and satellite communication media along with diagrams. (2+2+2)

Q. 6 What is copy right? Why is copy right important in Computer software industry? (2+4)

Q. 7 Write down short notes on the following: (2+2+2)

a.	Cathode Ray Tubes	b.	TCP/IP	c.	Data Address Register (DAR)