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Roll No. | | | | | | |

Answer Sheet No._____

Sig. of Candidate._____

Sig. of Invigilator._____

COMPUTER SCIENCE HSSC–I

SECTION – A (Marks 15)

Time allowed: 20 Minutes

Version Number 1 7 7 1

Note: **Section – A is compulsory. All parts of this section are to be answered on the OMR Answer Sheet provided separately. It should be completed in the first 20 minutes and handed over to the Centre Superintendent along with the Question Paper. 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.**

1) How many pairs of computers can simultaneously communicate on Ethernet LAN?

A. 1 B. 2 C. 3 D. Multiple

2) Which layer of OSI model does data compression?

A. Network B. Presentation C. Data link D. Physical

3) CBT software is used in:

A. Education B. Industry C. Business D. E-commerce

4) Which one is not a type of ROM?

A. PROM B. EPROM C. FPROM D. EEPROM

5) The microphone converts the sound into:

A. Mechanical signals B. Electrical signals

C. Computer file D. Digital signals

6) Which of the following is a set of instructions that run the computer?

A. Algorithm B. CPU C. Hardware D. Software

7) Which is a top level domain?

A. Http B. .Com C. HTML D. URL

8) A bus with 64 lines can carry data:

A. 32 bits B. 32 bytes C. 64 bytes D. 64 bits

9) The set of rules to exchange data in a communication network is called:

A. Gateway B. Procedure C. Protocol D. Token

10) The number of bits a computer can process at one time is called:

A. Bite size B. Byte size C. Crunch size D. Word size

11) Which of the following is the most serious problem?

A. Loss of hardware B. Loss of data

C. Loss of software D. Loss of memory

12) The bar which contains the name of active application is known as:

A. Task bar B. Manu bar C. Title bar D. Drawing bar

13) Laser printer is an example of:

A. Non-impact B. Impact C. Inkjet D. Dot matrix

14) The top most layer of OSI model is:

A. Network B. Session C. Physical D. Application

15) Analog signals are measured in:

A. Volts B. Hertz C. Watts D. Amperes

For Examiner's use only:

Total Marks: 15

Marks Obtained:

COMPUTER SCIENCE HSSC–I

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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. Use supplementary answer sheet i.e. Sheet–B if required. 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) IT has made our world a global village. Justify.

(ii) Write some benefits of using Computer Networks.

(iii) Write the advantages of non-impact printers over the impact printers.

(iv) Compare LAN and WAN.

(v) Write two advantages and one disadvantage of fiber optic cable.

(vi) Why is RAM called Random Access Memory?

(vii) What is meant by Computer Simulation?

(viii) What are protocols? Briefly explain TCP/IP.

(ix) Distinguish between Asynchronous and Synchronous transmission.

(x) Show diagrammatically the three basic types of instruction code formats.

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) Elaborate the importance of backup.

(ii) How does virus spread?

(iii) What is purpose of copyright act?

(iv) Differentiate between multi-processing and multi-tasking.

(v) Briefly explain the purpose of Recycle Bin.

(vi) List three advantages of word processor over type writer.

(vii) Distinguish between Save and Save As commands.

(viii) What is the difference between worksheet and workbook?

(ix) Briefly explain the importance of search engines. Also list two search engines.

(x) Differentiate between E-mail addresses and URL's.

SECTION – D (Marks 18)

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

Q. 4 **a.** Distinguish between dedicated server networks and peer to peer networks. **(04)**

b. How I/O processor saves CPU's time? **(02)**

Q. 5 Explain how data can be transmitted over the telephone lines using amplitude, frequency and phase modulation. **(06)**

Q. 6 **a.** How can computer be useful in weather forecast? **(02)**

b. Explain the purpose of the following registers in computer system: **(02+02)**

i. Program Counter (PC) **ii.** Accumulator (A)

Q. 7 **a.** Explain eight data protection principles. **(04)**

b. Compare virus hoax with a genuine computer virus. **(02)**