

Federal Board HSSC-I (2017)

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 non-impact printer?

- A. Dot-matrix B. Daisy wheel
C. Line printer D. Inkjet printer

(ii) The process of converting analogue signals into digital signals is called:

- A. Modulation B. Switching
C. Signalling D. Demodulation

(iii) Which problem occurs when two workstations on shared Ethernet try to access LAN at the same time?

- A. Termination B. Deadlock
C. Collision D. Concession

(iv) The individual images that make up a video are called:

- A. Frames B. Pixels
C. Digits D. Bytes

- (v) **What comes after analysis phase in the SDLC?**
A. Support B. Design
C. Testing D. Implementation
- (vi) **Testing all program components together is called:**
A. Volume testing
B. Group testing
C. System testing
D. Composite testing
- (vii) **A connection for just similar networks uses:**
A. Bridge B. Gateway
C. Hub D. Route
- (viii) **Data link layer have two sub layers:**
A. LLC and MAC
B. CS and MA
C. Token and Ring
D. Intranet and extranet
- (ix) **The most common protocol used for E-mail is:**
A. FTP B. SMTP
C. JPEG D. Telnet
- (x) **Which of the following topology uses switch?**
A. Bus B. Star C. Ring D. Mesh
- (xi) **Internet surfing is an example of:**
A. Simplex B. Half duplex
C. Full Duplex D. Uploading
- (xii) **The step that obtains the next instruction from memory is called:**
A. Read B. Fetch
C. Get D. Decode

- (xiii) Which of the following is faster?
A. Register B. Cache
C. RAM D. Buffer
- (xiv) Which of the following technique uses modulation?
A. Bandwidth B. Broadband
C. Baseband D. Encryption
- (xv) The tool used to find a similar or alternative word in a document is called:
A. Finder B. Thesaurus
C. Dictionary D. Style checker

SECTION - B (Marks 39)

- Q.2 Answer any THIRTEEN parts. The answer to each part should not exceed 5 to 6 lines.**

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 × 3 = 21)**
- (i) What are features of an operating system?
 - (ii) Define computer Bus. Describe System Bus and Expansion Bus.
 - (iii) Describe different types of computer software.
 - (iv) Describe Asynchronous and Synchronous transmission.
 - (v) Explain briefly the working of Inkjet printer.

- (vi) Define computer Network. Also give two uses of computer Network.
- (vii) Briefly differentiate between hard disk and floppy disk.
- (viii) What is fiber optics cable? Give two disadvantages of fiber optics cable.
- (ix) Describe the importance of testing phase. How the system is tested?
- (x) Explain briefly computer Simulation. What are its benefits? (13 × 3 = 39)

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. (7×3 = 21)

- (i) Describe some ways in which the security of data may be violated.
- (ii) Write the procedure to insert page number in a document.
- (iii) How can we protect the computer system from a virus? Give any two precautionary steps.
- (iv) Define Recycle Bin. Write steps to restore files or folders from recycle bin.
- (v) Briefly write a note on Newsgroup.
- (vi) How is the use of Internet affecting Society negatively?

- (vii) Briefly discuss the rules for files and folders names.
- (viii) What is difference between function and formula?
- (ix) Explain briefly the following terms:
a. Word wrap b. Thesaurus
- (x) What is copyright and what types of works are protected by copyright?

SECTION-D (Marks 18)

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

- Q. 4 What is data protection act? Explain the data protection principles. (06)
- Q. 5 Explain the Fetch-Decode-Execute cycle of CPU. (06)
- Q. 6 Discuss the functions of transport layer, session layer and presentation layer. (06)
- Q. 7 Discuss the advantages of Internet in detail. (06)