

MODEL PAPER COMPUTER SCIENCE 1ST YEAR

NOTE: Attempt all questions of Section-A by filling the corresponding bubble on the **MCQs RESPONSE SHEET**. It is mandatory to return the attempted MCQs sheet to the Superintendent within given time.

SECTION -A

Time: 15 Minutes

Marks: 15

1. A set of specialized program that are used to control overall resources and operations of computer is called:

- A. Device Driver
- B. Utility Program
- C. System software
- D. Language processor

2. Which operation is used to provide data to computer:

- A. Input
- B. Processing
- C. Output
- D. Storage

3. Example of auxiliary memory is:

- A. Cache
- B. RAM
- C. Optical disk
- D. PROM

4. Fixed size group of bit that are handled together is called:

- A. Bit
- B. Nibble
- C. Byte
- D. Memory word

5. A bus that is used to designate a memory location or register where information is stored is:

- A. Data bus
- B. Address bus
- C. Parallel bus
- D. Serial bus

6. MOV, LD, and STO are examples of:

- A. Data transfer instructions
- B. Data processing instructions
- C. Arithmetic instructions
- D. Logical instructions

7. Which is the first program run by the computer when it is powered on:
- A. Device driver
 - B. Utility software
 - C. BIOS
 - D. Disk cleaner
8. If we want to transfer information one bit at a time on a physical interface the computer use:
- A. Parallel port
 - B. PS/2 port
 - C. Serial port
 - D. Fire wire port
9. The data produced by Presentation layer of OSI model is:
- A. APDU
 - B. PPDU
 - C. SPDU
 - D. TPDU
10. Which of the following requires line of sight communication:
- A. Twisted pair cable
 - B. Coaxial cable
 - C. Radio waves
 - D. Micro wave
11. Which of the following is the feature of mobile communication:
- A. Limited power
 - B. Interference
 - C. Health hazard
 - D. Device portability
12. A feature of DBMS by which server can determine when, how and to what extent data about him/ her is to be exchanged with others is:
- A. Data sharing
 - B. Data administration
 - C. Data security
 - D. Data privacy
13. An example of half-duplex mode is:
- A. Radio station
 - B. TV station
 - C. Walkie-talkies
 - D. Mobile phone

14. If a student opened a form, made changes and saved the form, what he did:

- A. Edit form
- B. Delete form
- C. Add a record
- D. Save a record

15. If a user wants to change a set of records according to specified criteria, which of the following query will be used?

- A. Select query
- B. Update query
- C. Save query
- D. Delete query

SECTION-B

Time: 2 Hours 40 Minutes

Marks: 36

Q. 1. Attempt any **NINE** of the following questions. Each question carries **4** marks.

- i. Define language processor and its types.
- ii. Describe internal processor memory.
- iii. Write two differences of sequential Access storage and Direct Access storage.
- iv. Briefly write about four stages of instruction cycle.
- v. What is BIOS? Write its function in computer.
- vi. Define port briefly write about any two types of ports.
- vii. Differentiate between Synchronous and Asynchronous transmission.
- viii. Write any two advantages and disadvantages of wireless networks.
- ix. Define GPS. Write about GPS segments.
- x. What is file management system and also write any three limitations of file management system.
- xi. Write about different languages of SQL.
- xii. What is field property? Write about any three field properties of a column in table/ relation.

SECTION-C

Marks: 24

NOTE: Attempt any **THREE** of the following questions. Each question carries 8 marks.

2. What is general purpose application software? Write in detail about Productivity Software and Educational Software. 8
3. Write in detail about general purpose registers used in CPU? 8
4. What is TCP/ IP protocol suite? Write its most commonly used protocols HTTPs and FTP. Describe 4 layers of TCP/ IP. 8
5. Define normalization. Describe 1NF, 2NF, 3NF with example. 8