

<b>COMPUTER SCIENCE</b>	<b>9th 2022 Gujranwala Board</b>	<b>Paper-I</b>
<b>Time: 1:45 Hrs.</b>	<b>Subjective Type</b>	<b>Marks: 40</b>

### SECTION-I

**2. Write short answers to any FOUR (4) questions. (8)**

- i** What is meant by planning a solution?
- ii** What is prototype?

**iii** What is meant by efficiency of an algorithm?

**iv** List three types of number system?

**v** Convert  $(A23)_{16}$  hexadecimal into binary number system.

**vi** Give two examples of storage devices.

**3. Write short answers to any FOUR (4) questions. (8)**

**i** Define Boolean algebra.

**ii** What is meant by logical expressions?

**iii** Make a truth table using "AND" operator.

**iv** Define communication.

**v** Write down a short note on hardware sharing.

**vi** Why addressing is needed in data communication?

**4. Write short answers to any FOUR (4) questions. (8)**

**i** What is meant by counter fitting?

**ii** What is difference between hacker and hacking?

**iii** What is meant by sabotage?

**iv** Write down a tag code of two different headings of "BISE".

**v** What is difference between online piracy and counter fitting?

**vi** Compare the copyright and trade secrets.

### SECTION-II

**Note: Attempt any TWO (2) questions. (16)**

**5. Explain any four symbols, which are used in flowchart. (8)**

**6. Explain basic components of data communication system. (8)**

**7. What is meant by phishing attack? Discuss characteristics of phishing E-mail and phishing websites. (8)**