

Computer Science	9th, Gujranwala Board, 2015	Group – II
Time: 2.45 hours	Subjective	Marks = 63

Note: Section I is compulsory. Attempt any three questions from Section II and attempt any two parts from section III.

### Section-I

2. Write short answers to any Six questions : (2×6=12)

- i. Who was Charles Babbage?
- ii. Write any two functions of a transistor.
- iii. Differentiate between system software and application software.
- iv. Differentiate between mouse and track ball.
- v. Differentiate between monitor and printer.
- vi. Differentiate between RAM and ROM.
- vii. Write three memory units.
- viii. Why do we use secondary storage?
- ix. What is data rate?

3. Write short answers to any Five questions : (2×5=10)

- i. Convert  $0.3_{(10)}$  into hexadecimal.
- ii. Represent 9807 in BCD code.
- iii. What is the difference between Boolean Constants and Variables?
- iv. What is binary addition?
- v. Make the truth table of the function.  
 $x.y + \bar{x}.y$
- vi. Write any two disadvantages of using Boolean Algebra laws.
- vii. What is meant by operator precedence in Boolean expression?
- viii. Write two advantages of K-Map method.

4. Write short answers to any Five questions : (2×5=10)

- i. What is source code?
- ii. Define object code.
- iii. Who designed DOS?
- iv. Describe the use of RD command.
- v. State the purpose of "My Document" folder.
- vi. What is meant by search utility?
- vii. What is virus?
- viii. State the use of antivirus program.

### Section-II

5. What is meant by language translator? Discuss different kinds of language translators. 7

6. Define port. Explain all types of ports with detail. 7

7. Describe kinds of impact printers. 7

8. Explain binary number system. Also convert the number 129 into binary. 7

9. Simplify the Boolean Function. 7

$$f(x,y,z) = x.z + \bar{x}.z.y$$

### Section-III

10.a Write down the steps to create a directory "BISE" in D: \ drive in DOS. 5

b Write down the steps to empty the recycle bin. 5

c Write down the steps to arrange the icons on desktop. 5