

Register Number :

Name of the Candidate :

**1 2 0 3**

**B.Sc. DEGREE EXAMINATION, 2010**

( MATHEMATICS )

( FIRST YEAR )

( PART - III - B : ANCILLARY )

**540. COMPUTER SCIENCE - I**

May ]

[ Time : 3 Hours

Maximum : 75 Marks

*Answer any FIVE questions,  
choosing not more than THREE from any Section.  
All questions carry equal marks.*

**SECTION - A**

( PROGRAMMING IN BASIC )

1. (a) How are computer languages classified ?
- (b) Discuss the functions of the components of a digital computer.

**Turn Over**

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2. (a) Mention the uses of drawing flowcharts and state the guidelines to drawing it.
- (b) Draw a flowchart to find the roots of the quadratic equation

$$ax^2 + bx + c = 0, \text{ where } a \neq 0.$$

3. (a) How do you use the IF ..... THEN statement in BASIC ?
- (b) Write a program in BASIC to do the following :

$$S = 1 + 3 + 5 + 7 + \dots + 99.$$

4. (a) Explain the usage of GOSUB statement.
- (b) Write a program in BASIC to multiply two matrices of order  $(3 \times 3)$ .

### SECTION - B

( PROGRAMMING IN COBOL )

5. What are the Edit characters to be used for numeric and non-numeric data ? Explain with examples.
6. How is IF sentence used in COBOL? Discuss the rules to be followed in the nesting of IF statement.

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7. Write a program in COBOL to arrange a set of numbers in ascending order.
8. Write a program in COBOL to merge two files. ( Assume the data)