

Register Number :

Name of the Candidate :

1 2 4 6

B.Sc.DEGREE EXAMINATION, 2011

(MATHEMATICS)

(FIRST YEAR)

(PART - III)

(GROUP : B - ANCILLARY)

540. COMPUTER SCIENCE - I

(Candidates joined during 2009-10 and before)

May]

[Time : 3 Hours

Maximum : 75 Marks

*Answer any FIVE questions,
choosing not more than THREE from each
Section.*

All questions carry equal marks.

(5×15=75)

Turn Over

SECTION - A

(PROGRAMMING IN BASIC)

1. (a) Explain :
 - (i) Arithmetic unit.
 - (ii) Control unit.
 - (iii) Processing unit.
- (b) Describe the steps that are essential for solving a problem using a computer.
2. (a) List the four steps of looping process.
- (b) Distinguish between STOP and END statement.
3. (a) Explain ON-GOTO statement.
- (b) Write a program to find the sum of “n” natural numbers.
4. (a) Explain subroutine function.
- (b) Write a program to find the value of
$$\frac{n!}{n (n - \gamma) !}$$
 using a subroutine to find the factorial of a number.

SECTION - B

(PROGRAMING IN COBOL)

5. (a) Explain data name and figurative constants.
- (b) Classify the different categories of COBOL statements.
6. (a) Describe the purpose of the depending phrase in the OCCURS clause.
- (b) Explain the use of GOTO..... DEPENDING on statement in COBOL.
7. (a) Write a program to merge two mark files using Register Number as key field.
- (b) Define ACCEPT and DISPLAY statement.
8. (a) Write a program which displays the total numbers of records of each type in the file.
- (b) Explain the purpose and usage of SET and SEARCH verbs with suitable examples.