2 0 2 2

(November)

COMPUTER SCIENCE

(Honours)

(CS–502 BP)

(Programming using VB NET)

(Practical)

Marks : 37

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **one** question from each Group

GROUP—A

1. Design a form with suitable controls and write appropriate event handlers to list out all the prime numbers within a range from '*m*' to '*n*'. 11

2. Write a program to perform multiplication of two matrices. 11

(Turn Over)

GROUP—B

3. Design a class called triangle. The class has properties base and height with a default value of 1. It has property procedures to set and get the value of its properties. It has a method that calculates the area of a triangle. It also has a default and parameterised constructor. Test this class accordingly.　　12

4. Design a form with suitable controls and write appropriate event handlers to display the number of words, longest and shortest words in a sentence.　　12

GROUP—C

5. Design an MDI application having three forms accessible through a menu. A form to add room details where room code is generated by the program. A form to edit room information by selecting the room code. A form to view details of a particular room by selecting the room code. The room information should include unique room code, room type and rate. These details should be stored in a table called ROOM in a database.　　14

6. Design an ASP.NET application for entering and viewing employee information of a company. The table employee should include details such as employee id, first name, last name, gender, address, designation and salary. These details should be stored in a table called Employee. None of the information should be left blank. Care should be taken that only text is entered for any information like first name and last name, and only numeric value is entered for salary. Display an appropriate message when an employee is successfully added. Design a second page for the application to view existing employee record by selecting the employee id.　　14

★ ★ ★