(4)   **Code No. : C-377**

OR

Write the steps to add a Data Control in a Visual Basic program.

Q.5   Give SQL queries for the following task on the table student (Roll No., Name, Gender, DOB, Class, Percentage)

a)   Display the name of all students in the class of B.Sc.

b)   Display the name and percentages of all students who scored more than 60%.

c)   Update the percentages of student with Roll No. 1001 and set it to 75%.

d)   Delete the record of student with Roll No. 1009.

e)   Delete all the records of the table.

OR

Explain the concept of Error handing in Visual Basic programs.

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Roll No......................   Total No. of Sections   : 03

Total No. of Printed Pages : 04

Code No. : S-377

Annual Examination - 2019

B.Sc. Part - III

COMPUTER SCIENCE

Paper - II

COMPUTER SOFTWARE

Max.Marks : 50

Time : 3 Hrs.   Min.Marks : 17

Note : Section 'A', containing 10 very short-answer-type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences :   **(1 × 10=10)**

Q.1   What is the full form of DDL?

Q.2   What is primary key?

Q.3   Which command is used to add and delete a record from a table?

Q.4   Name any two string functions in SQL.

Q.5   Name the different types of joins in SQL.

Q.6   Draw the symbol for an attribute in ER diagram.

P.T.O.

Q.7   What is the use of combo box in GUI design?

Q.8   What does the function now ( ) do in Visual Basic?

Q.9   What is the difference between Msgbox and Input Box?

Q.10 What is Data Environment used for?

Section - 'B'

Answer the following short-answer-type questions with word limit 150-200 :   (3 5=15)

Q.1   Explain the importance of keys in database design.

OR

Differentiate between Select and Project operator in Relational Algebra.

Q.2   Give example of functional dependencies in a table.

OR

Why we need Normalization in database design?

Q.3   Explain the different aggregate functions in SQL.

OR

Explain the concept of Sub queries with example.

Q.4   Explain the syntax of 'if else' and 'switch case' constructs in Visusl Basic with example.

OR

Explain the use of the controls of Msgbox and Combobox in Visual Basic.

Q.5   Differentiate among DAO, RDO and ADO in brief.

OR

Explain the concept of Joins in SQL with an example.

Section - 'C'

Answer the following long-answer-type questions with word limit 300-350 :   (5 5=25)

Q.1   What are the duties and role of a Data Base Administrator?

OR

Draw the ER diagram for Library Management System.

Q.2   Explain the concept of Functional Dependency and Transitive Functional Dependency with example.

OR

What do you mean by Multi-valued dependency? Give example of 4NF.

Q.3   What is the purpose of Triggers in PL/SQL?

OR

Explain the syntax of Create, Insert, Update, Delete and Drop command in SQL with example.

Q.4   What do you mean by IDE? Discuss the important controls available in Visual Basic.

P.T.O.