I–68/22 Roll No.....

Annual Examination, 2022

B.Sc. Part III

COMPUTER SCIENCE

Paper II

(Computer Software)

Time : 3 Hours] [MAXIMUM MARKS : 50

Note : *Section 'A' is Objective type and is compulsory. It should be written on the* ***first page*** of Answer-book. Section 'B' is Short answer type and Section 'C' is Long answer type.

Section 'A'

(Multiple Choice Questions)

Choose the correct answer from the following questions : **1×10=10**

(i) In a database, related fields are grouped to :

(a) File (b) Bank

(c) Menu (d) Data Record.

(ii) A network schema :

(a) Stores data in table

(b) Restricts the structure to a one to many relationship

(c) Permits many to many relationship

(d) None of the above.

(iii) In a relational schema each tuple is divided into fields called :

(a) Domains (b) Queries

(c) Relations (d) None of these

(iv) Fourth Normal Form 4NF relations are needed when :

(a) There are multivalued dependencies between attributes in composite key

(b) There are more than one composite key

(c) There are two or more overlapping composite key

(d) There are multivalued dependency between non key attributes.

(v) Which operator performs pattern matching:

(a) Between operator

(b) Like operator

(c) Exists operator

(d) None of these

(vi) Which of the following SQL commands is used to retriene data :

(a) Delete (b) Insert

(c) Select (d) Join

(vii) Constructs in which an if block is contained inside another if black in VB is called :

(a) Multi if blocks

(b) Nested if blocks

(c) Sequential if blocks

(d) None of the above.

(viii) To include an image on the form we use which toolbox :

(a) Picture box (b) Image box

(c) Add image box (d) Add picture box

(ix) ..... method is used to clear the contents of mshflex grid control :

(a) clr (b) Remove

(c) Remove Item (d) Clear.

(x) ..... object contain information about an error accurred during DAO operation.

(a) Error (b) ERR

(c) Debugging (d) None of these.

Section 'B'

(Short Answer Type Questions) **3×5=15**

Note : *All the five questions are compulsory. Word limit* ***75-100*** *words.*

1. Explain the weak and strong entity set using example.

Or

What do you mean by Data abstraction ? Explain with example.

2. Write characteristics of RDBMS.

Or

Explain the following function :

(a) Project operation

(b) Cartesian product.

3. What is triggers in PL/SQL ? Explain with example.

Or

What is Subquery ? Example with example.

4. What are different types of events of the form ?

Or

Write any *two* components of visual basic IDE.

5. What methods are used to handle error ? Explain.

Or

Write short note on Field and Form level validation.

Section 'C'

(Long Answer Type Questions) **5×5=25**

Note : *All the five questions are compulsory. Word limit* ***250-300*** *words.*

1. Discuss the main characteristics of Database approach.

Or

Explain the following :

(i) Database Language

(ii) Database Administrator and User

2. What do you mean by decomposition and functional dependencies ?

Or

Explain the following :

(a) Relational Calculas

(b) Relational Algebra.

3. What is SQL ? Explain security management roles.

Or

What is view in SQL ? How we can create and drop view SQL ?

4. Explain the following :

(i) Project explorer (ii) Pop up menus

(iii) Text control.

Or

Explain the following with example :

(i) Array (ii) Select case.

5. Define connection and record set objects. Design a form that adds student record into the table.

Or

What is use of data environment ? Write the procedure to create data report.

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