

**BANKURA UNIVERSITY**

**B. Sc. (HONOURS) SECOND SEMESTER EXAMINATIONS, 2022**

**Subject: Computer Science**

**Course ID: 21514**

**Course Code: SH/CSC/203/GE-2**

**Course Title: Introduction to Database Systems**

**Full Marks: 25**

**Time: 1 hr. 15 min.**

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

**Answer all the questions.**

**UNIT I**

**1. Answer *any five* of the following questions: (1×5=5)**

- a) What do you mean by logical data independency?
- b) What is Meta data?
- c) What is entity?
- d) What is relational schema?
- e) What is degree and cardinality?
- f) What is the difference between weak entity and strong entity?
- g) What are database constraints?
- h) What is data dictionary?

**UNIT II**

**2. Answer *any two* of the following questions: (5×2=10)**

- a) Draw an E-R Diagram for a banking system using at least five entity sets.
- b) Discuss about DDL and DML with minimum 2 examples of each.
- c) Describe three level architecture Of DBMS.
- d) Explain primary key, candidate key, and alternate key. (2+1.5+1.5)

### UNIT III

3. Answer *any ONE* of the following questions: (10×1=10)

- a) What is Normalization? Explain 1NF, 2NF and 3NF with example.
- b) What is data model? Discuss different types of data model.

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Subject: Computer Science

Course ID: 21514

Course Code: SH/CSC/203/GE-2

Course Title: Programming in Visual Basic

Full Marks: 25

Time: 1 hr. 15 min

The figures in the margin indicate full marks

Answer all the questions.

### UNIT I

1. Answer *any five* of the following questions: (1×5=5)

- a) What is IDE?
- b) What is tree view control?
- c) Which control has refresh method?
- d) What is option base used for VB?
- e) Difference between image and picture box control?
- f) What is default property of data control?
- g) What is variable?
- h) Which control is used to provide an identifiable grouping for other controls?

## UNIT II

2. Answer *any two* of the following questions: (2×5=10)

- a) Describe Inprocess and Outprocess component in VB.
- b) What are different types of record set available in ADO?
- c) Explain OLEDB and IDE (Integrated Development Environment) Components.
- d) Explain all file types in a visual Basic project?

## UNIT III

3. Answer *any one* of the following questions: (10×1=10)

- a) What do you mean by VB Environment? Explain Toolbox, properties windows, form layout in detail. 2+8
- b) What do you mean by procedures? Discuss various types of procedures available in VB in detail. 2+8