

DBMS

(H-3)- BCA (5)

2013

Time : 3 hours

Full Marks : 100

Candidates are required to give their answers in their

Own word as far as practicable.

The questions are of equal value.

*Answer any **five** questions, in which*

Question no.1 is compulsory.

1. Choose the correct answer of the following :
 - (a) **VB is :**
 - (i) **Visual Building** (ii) **Visual Basic**
 - (iii) **Veiw Building** (iv) **View Basic**
 - (b) **Which of these is not an collection of the VB project ?**
 - (i) **The Global Module** (ii) **The from Module**
 - (iii) **The Object Module** (iv) **The Class Module**
 - (c) **Which of these is not an valid message box in VB?**
 - (i) **vbOKonly** (ii) **vbExitOnly**
 - (iii) **vbAbortRetryIgnore** (iv) **vbRetryCancel.**
 - (d) **What is DAO?**
 - (i) **Database Access Object**
 - (ii) **Database Access Object**
 - (iii) **Database Access Object**
 - (iv) **None of these**

- (e) **Visual Basic uses an object called.....to hold your table.**
- (i) **Record** (ii) **Record Set**
- (iii) **File** (iv) **Table**
- (f) **A Database is :**
- (i) **A vast amount of data stored in a group of integral files**
- (ii) **A set of condensed data highlighting specific information**
- (iii) **Arrangement of data in particular order**
- (iv) **Basic data for processing an application**
- (g) **SQL works with database ?**
- (i) **MS-Access** (ii) **DB2**
- (iii) **MS-SQL** (iv) **All of the above**
- (h) **Which of the following stores 32-bit floating point numbers in SQL?**
- (i) **Double** (ii) **BLOB**
- (iii) **REAL** (iv) **None of the above**
- (i) **A table column that contains values that are primary-key values in another table?**
- (i) **Primary key** (ii) **Relation key**
- (iii) **Foreign key** (iv) **Value key**
- (j) **Which of the following is application package?**
- (i) **SQL Server** (ii) **Oracle**
- (iii) **MS-access** (iv) **All of the above**

2.
 - (a) **List and explain the functions of various windows that are displayed when the Visual Basic application gets loaded in the design mode.**
 - (b) **Discuss the concept of VB project, creating, opening and saving the projects.**
3.
 - (a) **What do you understand by event driven programming? List and explain about some of the events supported by visual basic object.**
 - (b) **What are the different data types supported by visual basic? How they can be declared? Also mention their uses.**
4.
 - (a) **Explain the procedure, subroutine, functions, arguments of VB language.**
 - (b) **Explain with examples: Control flow statement, conditional and Loop in VB.**
5.
 - (a) **Discuss the working with forms and Menus. Briefly explain the Mouse conflict, dragging list, items using message boxes and input dialogs.**
 - (b) **Explain the Active X Commands and discuss the text box controls.**
6.
 - (a) **Explain the scrollbars and their types. What are the different types of dialog boxes? Briefly explain the built Active X controls.**
 - (b) **Discuss briefly about graphics controls. Explain Classes, Instances, Object and OLE.**
7.
 - (a) **Define database. Explain the feature of effective DBMS with pros and cons.**
 - (b) **List the various types of Data Model. Explain any two.**
8.
 - (a) **Explain the application of DBMS system. What do you mean by Entity Relationship charts.**
 - (b) **Discuss DML, DDL and DCL with suitable example.**

- 9. (a) Explain the architecture of RDBMS. Discuss performance improvement in databases.**
- (b) Explain SQL with basic commands. Discuss any five Functions of**
- 10. Write short notes on any two of the following :**
- (a) From design on an Advanced RDBMS**
- (b) Report Generation**
- (c) Security Consideration**
- (d) QBE (Query By Example)**

OBJECT ORIENTED PROGRAMMING with C++&JAVA

(H-3)- BCA (6)

2013

Time : 3 hours

Full Marks : 100

Candidates are required to give their answers in their

Own word as far as practicable.

The questions are of equal value.

*Answer any **five** questions, in which*

Question no.1 is compulsory.

1. Choose the correct answer of the following :

(a) Which of the following operator could not be overloaded?

- (i) + (ii) _
(iii) ;; (iv) ==

(b) A constructor is called when ever :

- (i) An object is declared
(ii) An object is used
(iii) A class is declared
(iv) A class is used

(c) Which of the following represent hexadecimal number?

- (i) 570 (ii) hex (5)
(iii) 0x9f (iv) All of the above

- (d) What is the return type of a constructor?
- (i) void
 - (ii) int
 - (iii) float
 - (iv) None of the above
- (e) The delete operator is used to :
- (i) Delete a variable name
 - (ii) Delete a member function
 - (iii) Deal locate storage
 - (iv) None of the above
- (f) A variable declared within a block { } has the following scope :
- (i) File scope
 - (ii) Local scope
 - (iii) Class scope
 - (iv) Global
- (g) If n is initialized to 7, the expression $n \ll 4 \gg 2$ evaluate to :
- (i) 56
 - (ii) 7
 - (iii) 14
 - (iv) None of the above
- (h) Which data type is returned by if else construct :
- (i) float
 - (ii) Boolean
 - (iii) int
 - (iv) None of the above
- (i) The major goal of inheritance in c++ is :
- (i) To Facilitate the conversion of data types
 - (ii) To help modular programming
 - (iii) To facilitate the reusability of code
 - (iv) To hide the detail of base classes
- (j) Which is not supported by java?
- (i) Package
 - (ii) Operator overloading
 - (iii) Interface
 - (iv) Applet

2. **What are the essential characteristics of an object in C++? Discuss how a class can be defined in C++ with the help of a suitable example.**
3. **What is constructor ? What is parameterized constructor?**
4. (a) **What is the significance of scope resolution operator?**
(b) **What is virtual base class. Explain its role and importance.**
5. **What do you mean by friend function and also write down the characteristics of friend function,**
6. **How can one achieve runtime polymorphism in C++ ? Explain with suitable example.**
7. (a) **Explain the process of compiling and running of java programs in detail.**
(b) **List the basic data types used in java.**
8. **What is a thread? How to create a thread? Discuss the life cycle of a thread in detail.**
9. **What do you mean by runtime error and compile time error? What are exception? Discuss how to handle exceptions in java with suitable example.**
10. **Write notes on the following :**
 - (a) **Interface**
 - (b) **JVM**
 - (c) **Destructor**
