MU-140

March-2019

BCA, Sem.-IV

CC-209 : SAQT

(New)

Time : 2:30 Hours]   **[Max. Marks : 70**

1. (A) Answer the following :
   - (i) Discuss incremental model.   **7**
   - (ii) Draw a context level and first level DFD for railway reservation system.   **7**

   OR
   - (i) List and explain the points to be kept in mind while preparing survey.
   - (ii) Draw a context level and first level DFD for online examination system.

   (B) Fill in the blanks : (Any **four** out of **six**)   **4**
   - (i) A questionnaire is also called a _____.
   - (ii) DFD entities are also called _____.
   - (iii) _____ is a planned meeting in order to obtain information for SDLC.
   - (iv) In DFD _____ is a top level view of an information system.
   - (v) The process which produces only output is called _____.
   - (vi) _____ question limit or restrict the response.

2. (A) Answer the following :
   - (i) List and explain the guidelines for designing of use-case.   **7**
   - (ii) Draw the sequence and collaboration for shopping cart application.   **7**

   OR
   - (i) Explain the context of different types of messages in sequence diagram.
   - (ii) Draw a use-case diagram for admission process in Gujarat University.

   (B) True or False : (Any **four** out of **six**)   **4**
   - (i) Actors are always external to the system.
   - (ii) Activation represents communication between instances.
   - (iii) For each use-case many sequence diagrams can be drawn.
   - (iv) Rectangle around the use case id called border of the system.
   - (v) Combined fragment are used to show conditional flow in sequence diagram.
   - (vi) Primary actors must be specified on the left most side of the diagram.

3. (A) Answer the following :
   (i) Explain different types of relationships in a class diagram. **7**
   (ii) Discuss any five guidelines for drawing activity diagram. **7**

   OR

   (i) Discuss the difference between analysis class diagram and design class diagram.
   (ii) Explain the use of interface in class diagram.

   (B) Fill in the blanks : (Any **three** out of **five**) **3**
   (i) A class associated with itself is called _____ association.
   (ii) A _____ is a physical connection among the objects.
   (iii) The transition element in square brackets is called _____ condition.
   (iv) Initial state in activity diagram is always placed in _____ corner.
   (v) Association _____ names are optional.

4. (A) Answer the following :
   (i) List and explain the factors governing performance testing. **7**
   (ii) Explain the importance of black box testing. **7**

   OR

   (i) Discuss integration testing.
   (ii) Explain the types of regression testing.

   (B) Define the terms : (Any **three** out of **five**) **3**
   (i) Response time
   (ii) SLA
   (iii) Stress testing
   (iv) Test scenarios
   (v) IDE

   _____

MU-140

March-2019

BCA, Sem.-IV

CC-209 : Visual Windows Programming
(Old Course)

Time : 2:30 Hours]   **[Max. Marks : 70**

1. (A) Answer the following :
   - (a) Explain Common Language Runtime.   **7**
   - (b) Explain NumericUpDown control with its following property :   **7**
     - (i) InterceptArrowKeys   (v) Value
     - (ii) ThousandSeperator   (vi) DecimalPlaces
     - (iii) Maximum   (vii) Increment
     - (iv) Minimum

   OR

   - (a) Explain different types of applications supported by .Net.
   - (b) Explain following property of Form control :
     - (i) WindowState   (v) Acceptbutton
     - (ii) Text   (vi) StartUpPosition
     - (iii) Icon   (vii) FormBorderStyle
     - (iv) ControlBox

   (B) Attempt any **four** out of **six** :   **4**
   - (i) JIT stands for _____. (Just-In-Time / Just-In-Type)
   - (ii) When we create New project, vb.net creates _____ form.
     - (a) Windows   (b) Web   (c) Class   (d) All
   - (iii) _____ property is used to hide the contents in textbox with some symbols.
     - (a) PasswordChar   (b) Symbol   (c) Password   (d) None
   - (iv) Msgbox is also a type of dialog box. (Y/N).
   - (v) _____ is a collection of Forms.
     - (a) Project   (b) Group   (c) Class   (d) All
   - (vi) Full form of IDE = _____

2. (A) Answer the following :
   - (a) List and explain datatypes available in vb.net.   **7**
   - (b) Explain Radiobutton control with its properties.   **7**

   OR

   - (a) Explain various assignment operators available in vb.net.
   - (b) Explain "Option Strict" with example. How constant variables are declared in VB.Net ?

   (B) Attempt any **four** out of **six** :   **4**
   - (i) Cint() is used to convert any data type to integer data type. (True/False)
   - (ii) Which function will return the monthly payments of a loan ?
     - (a) PMT()   (b) PV()   (c) MonPayQ   (d) PML()

(iii)   Groupbox control work as a container for other controls. (True/False)
(iv)   A _____ variable is one that is declared inside a procedure / function.
    (a)   Local   (b)   Global   (c)   Both   (d)   None
(v)   How can we do comment in VB.Net ?
    (a)   '   (b)   //   (c)   /*..*/   (d)   <!.....>
(vi)   Form control has two default buttons. (True/False)

3.   (A)   Attempt the following :
    (a)   Explain combobox control with its properties.   **7**
    (b)   Explain IF......Then and IF.....Then.....Else condition statement with example.   **7**

<div align="center">OR</div>

    (a)   Explain logical operators available in vb.net.
    (b)   Explain following string methods.
        (i)   Substring
        (ii)   Length
        (iii)   Endswith
        (iv)   Startswith
        (v)   ToLower
        (vi)   ToUpper
        (vii) Trim

   (B)   Attempt any **three** out of **five** :   **3**
    (i)   To remove all items from listbox _____method is used.
        (a)   Clear()   (b)   Remove()   (c)   Delete()   (d)   All
    (ii)   Is Digit() function checks whether a character is digit or not. (Y/N)
    (iii)   Loops are used to execute block of statements for known number of times.(Y/N)
    (iv)   _____ Event is raised when any key is pressed in textbox control.
        (a)   Keypress   (b)   Keyup   (c)   Keydown   (d)   Keyraised
    (v)   ForEach loop is used for collections of array. (True / False)

4.   (A)   Answer the following :
    (a)   Explain OpenFileDialog box control.   **7**
    (b)   Define Array. How we can declare dynamic Array in vb.net ?   **7**

<div align="center">OR</div>

    (a)   Explain procedure and functions with example.
    (b)   Explain MenuStrip control with its properties.

   (B)   Attempt any **three** out of **five** :   **3**
    (i)   Which symbol creates an access key in the text of a menu item ?
        (a)   &   (b) $ (c)   @   (d)   ^
    (ii)   ColorDialog box allow user to select color. (True / False)
    (iii)   GetLength(0) method of an array returns total length of an array.(Y/N)
    (iv)   StatusBarStrip is always displayed at bottom of the screen. (True/False)
    (v)   "Image" property of Picturebox is set to display image in picturebox. (True/False)

<div align="center">_____</div>