

Seat No. : \_\_\_\_\_

**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
- \_\_\_\_\_

Seat No. : \_\_\_\_\_

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**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) ThousandSeparator (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()

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- (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

**OR**

- (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** :

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- (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

**OR**

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

(B) Attempt any **three** out of **five** :

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- (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)