

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. : _____

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) 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()

- (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** :

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

OR

- (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)