## GBGS SCHEME

USN			16/17MCA52
		Fifth Semester MCA Degree Examination, Aug	./Sept. 2020
		Programming using C++ and •I	NET
			And the second
Tin	ne: 3	3 hrs.	Max. Marks: 80
	N	ote: Answer any FIVE full questions, choosing ONE full question	n from each module.
		Module-1	<i>y</i>
1	a.	Explain the architecture and components of •NET framework.	(00 M 1 )
	b.		(08 Marks)
		i) Value types and reference types	
		ii) Boxing and Unboxing.	(08 Marks)
		OR	
2	a.	Write a note on: i) CLR ii) Windows Workflow Foundation.	(08 Marks)
	b.	What is namespace? Explain the creation of user defined namespa	ce with an example. (08 Marks)
			(00 Marks)
		Module-2	
3	22	Explain partial classes and methods with code example.	(08 Marks)
	b.	Distinguish between compile time polymorphism and runtime polymorphism	
		code example.	(08 Marks)
		OR	<i>*</i>
4	a.	Explain with example the method of implementing encapsulation	using the general method
		and using class properties.	(08 Marks)
	b.	Secretary 1 - According to the secretary secretary and the secretary secreta	
		i) Indexers	
		ii) Implementation of inheritance using interface.	(08 Marks)
		Module-3	
5	a.	What are delegates? Explain with example the concept of multicas	sting with delegates
		and the same of th	(08 Marks)
		What is exception handling? Explain it with a sample program.	(04 Marks)
	c.	Write a note on custom exception.	(04 Marks)
		OR	
6	a.	Explain architecture of ADO •NET with a neat diagram.	(00 Manks)
U	h.	What is connection chicat? Evaloin the precedure of cetting as	(08 Marks)

- b. What is connection object? Explain the procedure of getting connected to a database and running the following queries with relevant example:
  - i) Insert record to a table
  - ii) Delete records from a table.

(08 Marks)

## Module-4

- 7 a. Illustrate the working of checkbox, RadioButton and GroupBox controls with a window form application example. (08 Marks)
  - b. Explain WPF Architecture and give the procedure to implement XAML elements in WPF architecture. (08 Marks)

OR

- 8 a. Write a note on:
  - i) MDI window
  - ii) Event driven GUI. (08 Marks)
  - b. Explain Data grid, calendar, date picker controls used in WPF (Windows Presentation Foundation). (08 Marks)

## Module-5

9 a. Explain in detail multitier application architecture.

(08 Marks)

b. Illustrate the working of AJAX application.

(08 Marks)

## OR

- 10 a. What are cookies? Explain session management in ASP •NET using cookies. (08 Marks)
  - b. Write a note n AJAX and other technologies.

(08 Marks)

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