CBCS SCHEME

USN | | | | | | | | | |

16/17MCA52

Fifth Semester MCA Degree Examination, Aug./Sept. 2020
Programming using C++ and •NET

Time: 3 hrs. Max. Marks: 80

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Explain the architecture and components of •NET framework. **(08 Marks)**

b. Explain the following with an example :
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 namespace with an example. **(08 Marks)**

Module-2

3 a. Explain partial classes and methods with code example. **(08 Marks)**

b. Distinguish between compile time polymorphism and runtime polymorphism with suitable code example. **(08 Marks)**

OR

4 a. Explain with example the method of implementing encapsulation using the general method and using class properties. **(08 Marks)**

b. Explain the following :
i) Indexers
ii) Implementation of inheritance using interface. **(08 Marks)**

Module-3

5 a. What are delegates? Explain with example the concept of multicasting with delegates. **(08 Marks)**

b. 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. **(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)**

CMRIT LIBRARY
BANGALORE - 560 037

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)**

* * * * *

VTU-27-08-2020 08:47:38am - CR - CR - CR - CR - CR - CR - CR - CR
27-08-2020 09:16:10am - CR - CR - CR - CR - CR - CR - CR - CR