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Question Paper Code: 59208

B.E. / B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Computer Science and Engineering

15UCS908- C# AND .NET FRAMEWORK

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6x 1 = 6 Marks)

(Answer any Six of the following Questions)

- Which of the following components of the .NET framework provide an extensible set of classes that can be used by any .NET compliant programming language? CO1 -R
(a) .NET class libraries (b) Common Language Runtime
(c) Common Language Infrastructure (d) Component Object Model
- Code that targets the Common Language Runtime is known as CO1 -R
(a) Unmanaged (b) Distributed (c) Legacy (d) Managed Code
- Which of the following .NET components can be used to remove unused references from the managed heap? CO1 -R
(a) Common Language Infrastructure (b) CLR
(c) Garbage Collector (d) Class Loader
- Creating empty structures is allowed in C#.NET CO1 -R
(a) True (b) False (c) both (a)&(b) (d) none of these
- Which of the following .NET components can be used to remove unused references from the managed heap? CO1 -R
(a) Common Language Infrastructure (b) CLR
(c) Garbage Collector (d) Class Loader

6. Which of the following should be used to implement a 'Has a' relationship between two entities? CO2 -R
- (a) Polymorphism (b) Templates (c) Containership (d) Encapsulation
7. Which of the following is the necessary condition for implementing delegates? CO2 -R
- (a) Class declaration (b) Inheritance
(c) Run-time Polymorphism (d) Exceptions
8. A derived class can stop virtual inheritance by declaring an override as CO3 -R
- (a) inherits (b) sealed (c) extends (d) inheritable
9. What is the connection string's key / value pair for using Windows Authentication in SQL Server 2000 and SQL Server 2005? CO4 -R
- (a) 1, 2 (b) 1, 2, 3 (c) 2, 3 (d) 1, 4
10. Which data provider gives the maximum performance from a connection to SQL Server? CO5 -R
- (a) The OLE DB data provider (b) The JDBC data provider
(c) The SqlClient data provider (d) The Oracle data provider

PART – B (3 x 8= 24 Marks)

(Answer any three of the following Questions)

11. What is Common Type System? Explain different types defined by the CTS in their language of choice CO1- U (8)
12. Develop an application in C# example with polymorphism. CO2 -U (8)
13. What do you mean by delegates? State their use with an example CO3 -U (8)
14. Describe in detail about windows application Configuration. CO4 - U (8)
15. Explain the web service architecture. What are the step involved in the create and consumption of web services CO5 - U (8)