Exam.Code:0461 Sub. Code: 3618

## 2022

## M.Sc. Information Technology Third Semester

MS-32: .Net Framework and C#

Time allowed: 3 Hours

Max. Marks: 80

**NOTE**: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

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I	a) What is the purpose of CLR?	(02)
	b) What are keywords? Give two examples.	(02)
	c) What do you understand by run time errors? Give two examples.	(02)
	d) What do you understand by SOAP serialization?	(02)
	e) What is the purpose of destructors?	(02)
	f) What is the purpose of ClickOnce deployment?	(02)
	g) Give one example each of client-side and server-side technology.	(02)
	h) What is ODBC used for?	(02)
-	UNIT-I	
II	a) Write a note on the origin and features of .NET technology.	(08)
	b) How C# is different from C++? Discuss.	(08)
III	a) Explain the syntax of for loop and discuss its working with the help of a	
	flowchart. Use this loop to find the sum of first 100 odd numbers.	(08)
	b) How String objects can be created in C#? Explain any three methods of this	` `
	class with the help of suitable examples.	(08)
	UNIT-II	
IV	a) Overload + operator to add two complex numbers. Appropriately assume	
	any required information yourself.	(08)
	b) How read and write operations can be performed on binary files? Discuss	, ,
	with the help of suitable code snippets.	(08)
V	a) Write a program to demonstrate division by zero exception. Appropriately	<del></del>
	assume any required information yourself.	(08)
	b) What do you understand by publisher-subscriber model? Discus the concept	1 1/2
	and use of events in C#.	(08)
	UNIT-III	,
VI	a) Discuss the utility and important properties of following controls:	
	Button, TextBox, CheckBox	(08)
	b) Discuss the utility of CompareValidator control with the help of suitable	
	example and code snippets.	(08)
νш	a) How state information can be managed in ASP.NET web applications?	-1
	Discuss.	(08)
	b) Write a note on creating an installation package for a project.	(08)
	UNIT-IV	
VIII	Use ADO.NET data access technology to demonstrate how connection to the	
	database can be established and insert and update operations can be performed	
	on the following table:	
	Customer (customer_id, customer_name, customer_dob, customer_city,	
	customer_contact, customer_email)	
	Appropriately assume any required information yourself.	(16)
IX	Explain ADO.NET architecture in detail highlighting important components	
	and their roles.	(16)