at run time. State True or False?

2. JIT compiler compiles instructions into machine code

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O.	-4				1

Roll No.....

M.Sc. II Semester Examination, 2021

INFORMATION TECHNOLOGY

Paper I

(Net Technology)

Time: 3 Hours] [Maximum Marks: 100

Note: All questions are compulsory. Question Paper comprises of 3 sections. **Section** A is objective type/multiple choice questions with no internal choice. **Section** B is short answer type with internal choice. **Section** C is long answer type with internal choice.

SECTION 'A'

(Objective Type / Multiple Choice Questions)

Choose the correct answer:

 $1 \times 10 = 10$

- **1.** Which of the following .NET components can be used to remove unused references from the managed heap?
 - (a) Garbage Collector (b) CLR
 - (c) CTS

(d) Class Loader

3.	causes the loop to continue with the next iteration after skipping any statements in between.				
	(a) break	(b) continue			
	(c) exit	(d) return			
4.	Incorrect Arithmetic Expression is not an Exception. State True or False?				
5.	Stream classes are defined innamespace.				
	(a) System.input	(b) System.output			
	(c) System.IO	(d) All of above			
6.	Which of the following control is used to validate that the two fields are equal:				
	(a) Compare validator				
	(b) equals() method				
	(c) Required field validator				
	(d) None of the above				
7.	There is only one Globa	l.asax file in one project. State			

True or False?

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- **8.** Which is not an ADO.NET Data Adapter Object?
 - (a) OleDbData Adapter
 - (b) SqlData Adapter
 - (c) Query Data Adapter
 - (d) All of the above
- **9.** Is it possible to Serialize Hash Table with XML Serializer? **Yes or No.**
- **10.** WSDL stands for.....
 - (a) Web Server Description Language
 - (b) Web Server Descriptor Language
 - (c) Web Services Description Language
 - (d) All of the above

SECTION 'B'

 $3 \times 10 = 30$

(Short Answer Type Questions)

Note: Attempt any two questions from each unit.

Unit I

- **1.** (a) What is task of JIT Compiler?
 - (b) What is CIL?

- (c) Explain cross language interoperability.
- (d) What is the task of Garbage Collector?

Unit II

- **2.** (a) Explain for each loop with example.
 - (b) Who is responsible for abnormal termination of a program when an Exceptions Occurs?
 - (c) What is Jagged Array? How it is defined?
 - (d) Write a brief note on Boxing and Unboxing.

Unit III

- **3.** (a) Write advantages of using XML.
 - (b) Define Interface.
 - (c) What is Enumeration? Explain with example.
 - (d) Why is use streams?

Unit IV

- **4.** (a) What s Event?
 - (b) What is Web Form? Write steps to create empty web form in website.

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P.T.O.

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- (c) Write difference between client side and server side validation.
- (d) What is Rendering?

UNIT V

- **5.** (a) What is delegate?
 - (b) What is Data Set? Why it is used?
 - (c) Briefly explain ADO.NET Architecture.
 - (d) What is Data Reader? Write features of Data Reader class.

SECTION'C' $12 \times 5 = 60$ (Long Answer Type Questions)

P.T.O.

Note: Answer any two questions from each unit.

Unit I

- 1. (a) What is .NET Framework? Explain its architecture.
 - (b) What is CLI specification? Write a brief note on development of .Net.
 - (c) Write a brief note on features of .NET.

Unit II

- **2.** (a) What do you mean by jump statement? Explain any two jump statement with example.
 - (b) What is Exception? Explain the use of *Try, Catch* and *Finally statement*.
 - (c) Write benefits of using Visual Studio IDE? Write steps of create .NET Solution.

Unit III

- **3.** (a) What is XML ? Write a brief note on XML Serialization.
 - (b) What is Windows Process ? How we can manage windows process ?
 - (c) Write a brief note on file handling. Explain various I/O classes that are used for performing various operations with file.

Unit IV

- **4.** (a) What is validation control? Explain any 3 controls of ASP.NET used for validation.
 - (b) Explain any two standard ASP.NET Control along with its properties.

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(c) What is difference between classical ASP and ASP.NET?

Unit V

- **5.** (a) What is ADO.NET? Explain any one namespace of ADO.NET along with classes available in that namespace.
 - (b) Write a brief note on ASP.NET Web Services.
 - (c) Briefly explain ASP.NET Data Binding. Write a program to bind SqlData Source to Gridview.

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