

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: B.TECH
BRANCH: CSE**

**SEMESTER : VII
SESSION : MO/2022**

SUBJECT: IT402 NET PROGRAMMING

TIME: 3:00 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Explain .Net Framework architecture with suitable diagram. [2]
Q.1(b) Explain the workflow that takes place between source code, .NET compiler and execution engine. [3]
Q.1(c) Write a C# program to compute and display the average of an array elements with input taken from the console. [5]
- Q.2(a) What are the differences between Class and Structure? [2]
Q.2(b) What is the Object Class in .Net, Explain the System.Object Methods. [3]
Q.2(c) What is the operator overloading? Explain the following operators: [5]
(a) Is operator (b)As operator (c) sizeof (d) typeof operator (e)Null Coalescing
- Q.3(a) What is Error log? Explain event log in .NET. [2]
Q.3(b) Write a program to explain constructor invocation in inheritance. [3]
Q.3(c) Write a web application program in asp.net, to implement currency conversion. [5]
- Q.4(a) What is ADO.Net? Explain its use. [2]
Q.4(b) What is a Web Service? Explain any one Web service with architecture. [3]
Q.4(c) Write Short Notes on the Following: [5]
(a) Sealed class and Methods (b) DataReader Object (c) Dataset (d) ExecuteNonQuery Method
- Q.5(a) What are the core features of .NET platform? [2]
Q.5(b) Explain the concept of assembly. What are its contents? [3]
Q.5(c) Describes the interfaces that are unmanaged hosts can use to integrate the common language runtime (CLR) with their applications. [5]

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