

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

CLASS: BTECH
BRANCH: CSE

SEMESTER : VII
SESSION : MO/2023

SUBJECT: IT402 NET PROGRAMMING

TIME: 3 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 the overview of Microsoft .Net framework and its components in detail.	[5] 1	1
Q.1(b)	Write a C# program to calculate the roots of a quadratic equation	[5] 2	3
Q.2(a)	Explain the terms Abstraction and Polymorphism. (Use source code to explain)	[5] 1	2
Q.2(b)	Implement Operator overloading using C# to demonstrate application of classes and objects.	[5] 3	3
Q.3(a)	Describe the difference between an ArrayList and Array. (Use source code to explain)	[5] 2	2
Q.3(b)	Write a C# program to handle user defined exceptions	[5] 3	3
Q.4(a)	Name two items used to create a generic delegate. What conditions are required to implement it. Give example to prove your answer.	[5] 3	4
Q.4(b)	Design a general-purpose calculator using ASP.NET	[5] 2	3
Q.5(a)	“Lock-based resource protection and thread/process synchronization have many disadvantages using Threading in C#”. Describe five disadvantages.	[5] 4	4
Q.5(b)	Write a C# ADO.Net application to verify the establishment of a connection with OLEDB and MS-SQL /oracle/ MS access databases. (any one)	[5] 5	3

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