

**M. SC. (COMPUTER SCIENCE) SEM – III (CHOICE BASED
CREDIT & GRADE SYSTEM) : WINTER - 2017**

SUBJECT: .NET TECHNOLOGIES

Day: Wednesday

Time: 03.00 PM TO 06.00 PM

Date: 08/11/2017

W-2017-0830 Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw diagrams **WHEREVER** necessary.

Q.1 Write a note on web services. Write steps to create a web service in ASP. Net. (15)
Create a web service to calculate factorial of a number.

OR

Explain Disconnected architecture with proper diagram and example.

Q.2 A) Answer **ANY ONE** of the following: (08)

- i) Explain checkbox and radio button control with their properties and methods.
- ii) Discuss the purpose of Binary Reader and Binary Writer with suitable example.

B) Answer **ANY ONE** of the following: (07)

- i) Discuss data adapters and data sets in ADO.Net
- ii) Elaborate method overloading in C#. net with an example.

Q.3 Answer **ANY THREE** of the following: (15)

- a) What is Assembly? Explain its different components.
- b) How does a garbage collector work?
- c) Create a console application in C# to handle an event using timer control.
- d) Differentiate between VB.net and C#.net
- e) What is CLR? Explain the responsibilities of CLR.

Q.4 Write short notes on: (**ANY THREE**) (15)

- a) MSDN
- b) DataGrid control in web applications
- c) XML
- d) Overriding and shadowing
- e) Just- in-time compiler

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