Roll No………

MCA 4th Semester Examination
June-2014
C# & ASP.NET
Subject Code: CAL-604

Time Allowed: 03 hours.                            Maximum Marks: 100

Before answering the question paper the candidate should ensure
that they have been supplied the correct question paper. Complaints
in this regard, if any, shall not be entertained after the examination.

Note: Attempt five questions in total .Question No.1 is compulsory
and remaining four questions from Section A and B ( Two questions
from each section

Q1(i) What do you mean by Metadata? Where metadata about a
C# program is stored?
(ii) What do you mean by properties and indexers in C# ?
(iii) Write a short note on polymorphism.
(iv) Explain web services with its application.    (4 x 5 = 20)

SECTION-A
Q2(i) Discuss .net framework? Explain their architecture? Also
write down the steps for compilation process of .net
framework    (20)
Q3(i) What is garbage collection? Explain the garbage collection
process in C-Sharp with example.   (10)
(ii) Write program in C-Sharp to show how properties and
indexers are implemented.    (10)
Q4(i) Explain arraylist collection with details. What are the
different methods implemented by arraylist.    (10)
(ii) Discuss the term interfaces with example? Why interfaces
are used in oops?    (10)

SECTION-B
Q5(i) What are the different classes used to connect to data base in
C#?    (10)
(ii) Write a program in C# to show the database connectivity in
C#.    (10)
Q6(i) How many types of controls are available in asp.net? (10)
(ii) Explain the life cycle of an asp.net application    (10)
Q7(i) What do you mean by authentication and authorization?
What are the different types of authentication and
authorization are available in asp.net?    (10)
(ii) Discuss the different types of server side state management
techniques?    (10)