UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B.Tech. CSE-All IBM Branches   Semester – V
Subject (Course): .Net Technologies   Max. Marks   : 100
Course Code:CSEG392   Duration: 3 Hrs
No. of page/s: 03

Note: 1. Attempt all the questions.

Section A

Each question carries 5 marks

Q.1 Explain following terms with respect to .Net framework:
   a) Base Class Library
   b) Common Language Runtime

Q.2 What do you mean by Master page? Explain syntax of creating master page.

Q.3 List and explain various primitives data types used in .NET.

Q.4 Write ASP.NET program to get age from user. Validate the form so that the entered age
     must be between 18 and 60 (Use appropriate validation control).

Section B

Each question carries 10 marks

Q.5 Describe the SOAP message structure and various elements of SOAP message.

Q.6 Explain GDI+ application development with example.

Q.7 a)What are the highlights of .NET framework. (5+5)
     b) Enlist the important technical aspects of web services.

Q8. Write a C# code in console application to get the following I/O.

Input : **Enter Dimension of square matrix : 4**
Output:

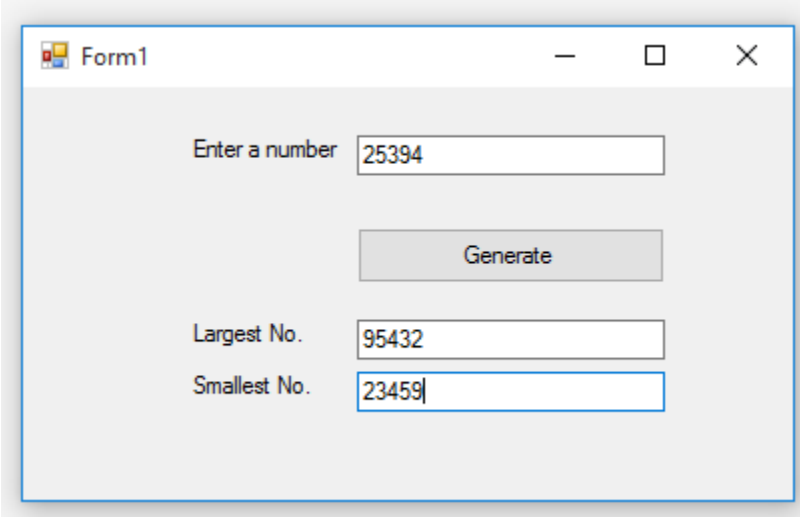|			
1	1	1	1
2	4	8	16
3	9	27	81
4	16	64	256

Section C

Each question carries 20 marks

Q.9 Write a brief note on the following: (10+10)
   a) WPF
   b) WCF

Q.10 a)Write the code for the following windows application. The constraints has been defined
      below (10)

- The application will ask to input a number in upper text box named as txt_input.
- On clicking the "Generate" button, it should display the largest and smallest number
  those can be generated from input number by rearranging the digits and display them in
  lower two text boxes named as txt_large, txt_small.

b) What are the types of events in ASP.NET? Explain page execution in ASP.NET. What are the
   main events executed when page is requested. (10)

OR

Q.10 a)Write a note on XML's hidden role in .NET. (6+8+6)
   b) What is DataGrid? List the different templates used in DataGrid control.
   c) Explain the characteristics of ADO.NET.

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Section A

Each question carries 5 marks

Q.1 Explain CLR and CTS.

Q.2 What are the types of events in ASP.NET?

Q.3 Describe the AJAX web service with an example.

Q.4 What is disconnected architecture in ADO.NET.5

Section B

Each question carries 10 marks

Q.5 What are the various components of web service, describe each in detail.

Q.6 Write a program to display contents of 'Users' database table using ADO.NET.

Q.7 Write a brief note on WPF.

Q.8 Write a brief note on WCF.

Section C

Each question carries 20 marks

Q9. a) Write a C# program to convert and display a 2D araay into 1D array. (10)

b) Write a C# program to print a Diamond filled with '*', using nested loop. (10)

Q.10 a)Explain master page in web base and window base application. (10)
      b) (i) Define Namespace (3+4+4)
        (ii) In C# constructor can return the value. Justify.
       (iii) Can we overload the assignment operator in C#? Justify it.

                                    OR

Q10. a) Write the code in ASP and C# to develop the following ASP.net web application
         module. (10)

DECIMAL to Binary and HEX converter / convertor																

Insert
Decimal Value   `34`

Binary   `00100010`
Hex   `22`

Conversion Code - Chart																
DECIMAL	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
HEX	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BINARY	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111

You will enter a decimal number and output will be Binary and hexadecimal. The conversion
chart is given for your help.

b) Write a short note on website navigation. (10)