

Name:	
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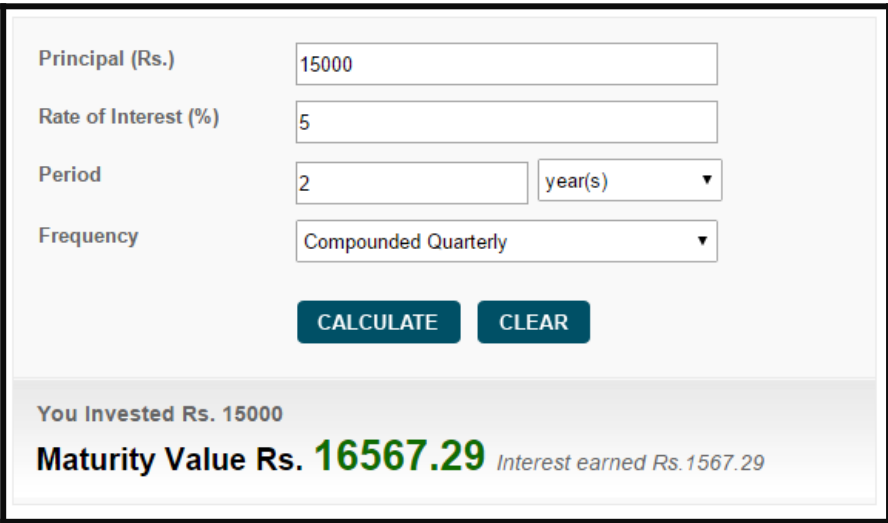
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: .Net Technologies Programme: B.Tech. CSE-All IBM Branches Time: 03 hrs. Instructions:	Semester: V Course Code: CSEG392 Max. Marks: 100
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SECTION A

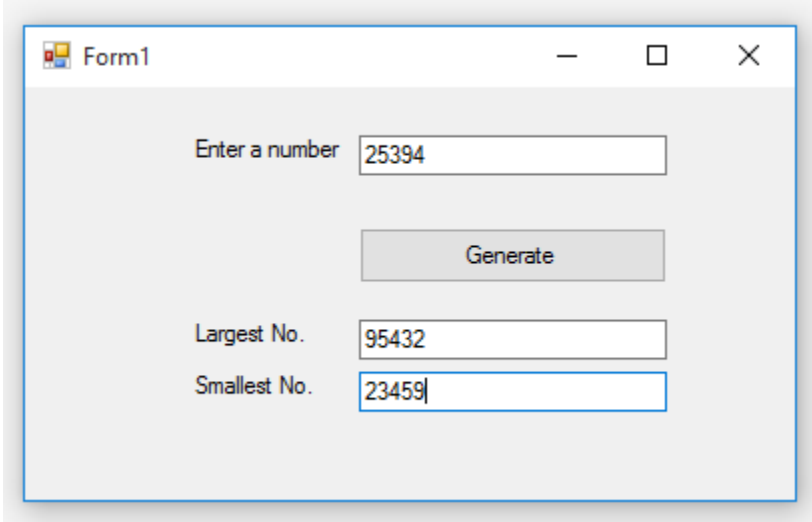
S. No.	Question	Marks	CO
Q1.	Draw .Net Layered Architecture and define its base Layer.	4	CO1
Q2.	Write a C# program to define the significance of Inheritance in C#.	4	CO5
Q3.	What are the server side objects in ASP.net?	4	CO3
Q4.	Describe the Significance of Master Page in ASP.Net with a small example.	4	CO3
Q5.	Write a C# program to convert and display a 2D array into 1D array.	4	CO5

SECTION B

Q6.	<p>Explain the significance of web service. Write ASP and C# code for following ASP.net web application. It will ask for P, R, T, Frequency, and output will be the total amount with profit.</p> <div style="border: 2px solid black; padding: 10px; margin: 10px auto; width: 80%; text-align: center;">  </div>	10	CO4
Q7.	Explain the complete Framework of .Net Framework 4.0. Explain the different layers in detail.	10	CO1
Q8.	What is AJAX. What is the significance of using AJAX in web Application. Give a	10	CO4

	complete example of using AJAX in ASP.Net Application.																		
Q9.	<p>Write a C# code in console application to get the following I/O.</p> <p style="text-align: center;">Input : Enter Dimension of square matrix : 4</p> <p style="text-align: center;">Output:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">1</td><td style="text-align: center;">1</td><td style="text-align: center;">1</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">4</td><td style="text-align: center;">8</td><td style="text-align: center;">16</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">9</td><td style="text-align: center;">27</td><td style="text-align: center;">81</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">16</td><td style="text-align: center;">64</td><td style="text-align: center;">256</td></tr> </table> <p style="text-align: center;">Or</p> <p>What is the significance of Exception Handling in C#. Create an exception class, which throws an exception if operand is nonnumeric in calculating modules.</p>	1	1	1	1	2	4	8	16	3	9	27	81	4	16	64	256	10	CO3
1	1	1	1																
2	4	8	16																
3	9	27	81																
4	16	64	256																

SECTION-C

Q10.	<p>What is ADO.Net? Explain any two components of it.</p> <p>Write the code for the following windows application. The constraints has been defined below.</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • 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. 	20	CO4, CO5
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Q11.

What is the difference between ADO and ADO.Net. Write the steps to design following ASP page and write C# code for the following Registration form and Login Form:

**REGISTRATION
FORM**

NAME

EMP ID

PASSWORD

DOB

LOGIN FORM

EMP ID

PASSWORD

The Data from the Registration form should store in Access database Table and the login form should check the login details from same Access database Table. After successfully matching the login details the user should get a message of successful login.

Or

Explain the architecture of IIS server in detail. Explain the following components of IIS with complete description and functions.

- Windows Process Activation Service
- Request Processing in IIS

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CO2
CO4,
CO5

SECTION B

Q 6

Write the code in ASP and C# to develop the following ASP.net web application module.

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

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CO4
CO5

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

Q7.

Explain the complete Framework of .net Framework 4.0. Explain the different layers in detail.

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CO1

Q8.

- (a) Differentiate between Windows/Web/Mobile/ Console applications.
- (b) Write a C# program to enable the user to handle any chance of divide by zero exception.

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CO2

Q9.

Define Windows process Activation Service (WAS) and Define a HTTP Request Processing in IIS.

Or

What is AJAX. What is the significance of using AJAX in web Application. Give a complete example of using AJAX in ASP.Net Application.

10

CO3
CO4

SECTION-C

Q 10

- (a). What are the server side object in ASP.net?
- (b). Develop an ASP.Net project that will ask user to enter any 10 numbers using a console. The 10 numbers will be taken by console separated by comma. The C# code will get these numbers from console and fill them in an array. After filling the array the array elements will be checked one by one. If the element is EVEN then it should be inserted into EVEN table and ODD number should be inserted into ODD table of

20

CO3
CO5

MYSQL Database. EVEN and ODD are two separate tables in MYSQL Database.

Q11

Design and code for the following windows application in C#.net. The detailed instructions for this application are given here:

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CO2,
CO4,
CO5

The screenshot shows a Windows application window titled "Form3". Inside the window, there is a section labeled "3X3 Matrix" containing a 3x3 grid of textboxes. The values in the textboxes are: Row 1: 2, 10, 12; Row 2: 20, 14, 18; Row 3: 8, 16, 26. Below the matrix, there is a label "Your Answer" followed by an empty text input field. At the bottom of the window, there is a button labeled "Calculate and Compare".

- On loading the application, it should contain a matrix of 9 textboxes named from txt11, txt12, txt13, txt21, txt22, tx23, txt31, txt32, txt34.
- Initially the Nine textboxes will contain all even numbers ranging from 1-100 and all numbers should be unique.
- It will contain another textbox named as txt_ans. It will be used to take the input (Determinant value of matrix) from user. Formula for calculating determinant is given below.

Description

The Determinant of 3x3 Matrix block computes the determinant for the input matrix.

The input matrix has the form of

$$A = \begin{bmatrix} A_{11} & A_{12} & A_{13} \\ A_{21} & A_{22} & A_{23} \\ A_{31} & A_{32} & A_{33} \end{bmatrix}$$

The determinant of the matrix has the form of

$$\det(A) = A_{11}(A_{22}A_{33} - A_{23}A_{32}) - A_{12}(A_{21}A_{33} - A_{23}A_{31}) + A_{13}(A_{21}A_{32} - A_{22}A_{31})$$

- On clicking the "Calculate and Compare" button the determinant of the

matrix should be calculated using C# code and the same will be compared by used input value, which is calculated manually by the user.

- If the user given value is matched with, the calculated value than user should get congratulation message and a new matrix should be populated with ODD numbers and all should be unique ranging from 1-100.
- The game will continue if the user gives the right answer.
- The game will stop on wrong answer or maximum five(5) attempts which occur first.

Or

What is the difference between ADO and ADO.Net. Write the steps to design following ASP page and write C# code for the following Registration form and Login Form:

The Data from the Registration form should store in Access database Table and the login form should check the login details from same Access database Table. After successfully matching the login details the user should get a message of successful login.