UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program : B.Tech CSE (OSOS+OGI+ERA)	**Semester – VII**
Subject (Course): Web 2.0 Technologies	**Max. Marks : 100**
Course Code : CSIB 421	**Duration : 3 Hrs**
No. of page/s: 02	

Section-A   **4 x 5 = 20**

Answer all the following Questions

1. What is the difference between web 1.0 and web 2.0? Write at least five technical points.
2. Facebook is consider as Web 2.0 application. Write some technical points to justify this statement.
3. Write short note on following
    a) SOA
    b) SaaS
4. Using a RegEx instance, write a JavaScript function isValid() that accepts string argument to check a phone number in given format.
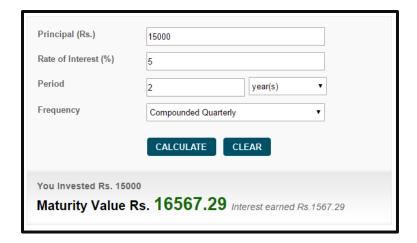   XXX-XX-XXXX

Section-B   **4 x 10 = 40**

Answer all the following Questions

5. What is the difference between a model and architecture? Draw Layered view of web 2.0-reference architecture and explain it top most layer in detail.
6. Differentiate
    a) Personal Website and Blog
    b) Taxonomy and Folksonomy
7. Write Short note on following.
    a) Rich Internet Application
    b) RSS (Rich Site Summery)

8. Write HTML/PHP code for following web application. It will ask for P, R, T, Frequency, and output will be the total amount with profit.

Section-C   **2 x 20 = 40**

Answer the following Questions

9. (a) Design a web page using AJAX, PHP, HTML to search a word from word suggestion list, as per the following example.

Search your author name:

a

Suggestions from existing book bank: Amit, Alex, Anmol

Word suggestion list can be save as word.php

(b) Explain Meta model for architectural patterns.   **[15+5]**

10. Define **any one** the following web 2.0 specific patterns in detail. Explain the business problem (story), context, and generalized solution for any one of them.

    a) Service Oriented Architecture Patterns
    b) Participation- Collaboration Patterns

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<u>**Section-A**</u>   **4 x 5 = 20**

Answer all the following Questions

1. Differentiate between HTML and XML explain with an example.
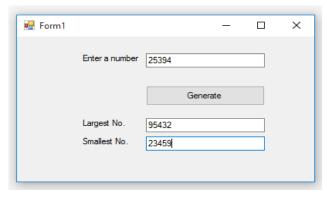2. Explain the role of SOAP in web services.
3. Using a RegEx instance, write a JavaScript function isValid() that accepts string argument to check a phone number in given format.
   XXX-XXX-XXXX
4. Explain How Gmail enables the effective use of AJAX.

<u>**Section-B**</u>   **4 x10 = 40**

Answer all the following Questions

5. Explain the architecture of Rich Internet Applications (RIA). Write down the applications of RIA.
6. Differentiate
   c) Personal Website and Blog
   d) Taxonomy and Folksonomy

7. Write the HTML/PHP/Javascript code for the following web application. The constraints has been define below.

- 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.

8. Write the short note on the following
   a. World wide web
   b. USENET
   c. File transfer Protocol
   d. Deep linking

Section-C   **2x20=40**

Answer all the following Questions

9. Draw and discuss the web 2.0 reference architecture. Also, explain the concept of Resource Tier.

or

"The SOA and MVC architectural models are key pillars of Web 2.0", does this two architectural model really works as pillar of web 2.0. Explain the working principles of model view controller.

10. Design a web page using AJAX, PHP, HTML to search a word from word suggestion list, as per the following example.

Search your author name:

```
a
```

Suggestions from existing book bank: Amit, Alex, Anmol

Word suggestion list can be save as word.php