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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Eighth Semester, B.E. -Information Science and Engineering
Semester End Examination; June/July - 2015

WEB 2.0

Time: 3 hrs

Max. Marks: 100

Note: i) Answer any **FIVE** full questions selecting at least **TWO** full questions from each **part**.
 ii) Any missing data may be suitably assumed.

PART - A

1. a. Explain the concept of SOAP, WSDL and REST protocols in designing a web 2.0 applications with suitable illustrations. 12
- b. Write a short note on iterative development of Web 2.0 applications. 4
- c. Differentiate between JSON versus XML. 4
- 2 a. Differentiate between traditional web application communications flows versus Ajax-style communication flow with appropriate sketches. 8
- b. Briefly explain the various implications of Ajax. 6
- c. With an example of your choice explain the hidden frame technique with an POST method. 6
- 3 a. Explain the various advantages and disadvantages of XHR. 6
- b. Discuss the following AJAX patterns: 8
 - (i) Predictive fetch pattern
 - (ii) Submission throttling pattern
- c. Differentiate between one-way and two-way communication along with suitable examples. 6
- 4 a. Explain the Flex framework in detail. 10
- b. Briefly discuss how flex applications work with suitable sketches. 6
- c. Explain how to design flex applications which are interactive using MXML. 4

PART – B

- 5 a. Explain the 4 basic options for placing code in a specific location when using Action Script within Flex. 8
- b. Briefly discuss how Action Script allows you to define interfaces with suitable examples. 6
- c. Differentiate between how synchronous and asynchronous error handling is taken care while using Action Script. 6
- 6 a. Explain the flex application life cycle with suitable sketches. 8
- b. With an example of your choice explain how to add children to a container using Action script. 6
- c. Differentiate between Canvas-based layout and Constraint –based layout. 6

- 7 a. With an example of your choice explain the concept of data grids. How is it done using Action Script? 8
- b. List and explain the various common UI component properties. 7
- c. Explain the data binding features of flex framework. 5
- 8 Write short notes on :
 - (i) Mashup techniques
 - (ii) Software as a Service 20
 - (iii) Flex and Flash authoring
 - (iv) Web Services in Flex

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