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**T.E. (Computer Engineering)**

**WEB TECHNOLOGY**

**(2015 Pattern)**

Time : 2½ Hours]

[Max. Marks :70

**Instructions to the candidates:**

1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.
2) Neat diagrams must be drawn wherever necessary.
3) Figures to the right indicate full marks.
4) Assume suitable data, if necessary.

**Q1)** a) List and discuss the different design issues in web development. **[5]**

b) Explain how to call Java Script function from HTML page. **[5]**

**OR**

**Q2)** a) What are the strengths of XML technology? Also list the limitations of using XML. **[5]**

b) Write a program of your choice to demonstrate the use of DOM. **[5]**

**Q3)** a) Create simple JSP pages which will demonstrates use of implicit session object in JSP. **[5]**

b) Explain HttpServletRequest and HttpServletResponse with suitable examples. **[5]**

**OR**

**Q4)** a) How to create an object in Java Script? Explain with suitable examples.**[5]**

b) Write the differences between include action and include directive in JSP. **[5]**

**Q5) a)** What is Multi dimensional arrays in PHP? Explain it with simple PHP code. **[6]**

**b)** List and explain different values of readystate and status property of the HTTPRequestObject. **[6]**

**c)** Write the differences between Client side scripting and server side scripting. **[4]**

OR

**Q6) a)** Explain server side include in PHP with sample code. **[6]**

**b)** What are the technologies used in traditional web programming? Also identify location of each technology used in this model. **[6]**

**c)** Find out and explain how XML and AJAX are related. **[4]**

**Q7) a)** What is MVC? Draw and explain MVC architecture for developing web applications. **[6]**

**b)** Create Simple Angular JS application to display "Hello, Input Name" using proper directive. **[6]**

**c)** Write various features of struts framework. **[4]**

OR

**Q8) a)** What are the different configuration files are require to develop any struts application? Explain each configuration file. **[6]**

**b)** Identify and explain data tags from struts2 which are used to manipulate data displayed on any web application page. **[6]**

**c)** List and explain various directives in AngularJS. **[4]**

**Q9) a)** Draw and explain scenerio of client accessing remote EJB. List some of the EJB clients. **[8]**

**b)** What are the different types of EJB? Identify and explain situations about when to use session beans. **[6]**

**c)** Write short note on Content Management System. **[4]**

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OR

**Q10)** a) Write EJB code to acquire JNDI context through [8]

    i) default JNDI properties and

    ii) Seperate JNDI properties

b) What are the web services? List and discuss components of web services. [6]

c) Write a short note on JSF. [4]

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