

Total No. of Questions : 10]

SEAT No. :

P3387

[Total No. of Pages : 3

[5353] - 590

T.E. (Computer Engineering)

WEB TECHNOLOGY

(2015 Pattern)

Time :  $2\frac{1}{2}$  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.

Q1a)CO:1,BL:2  
Q1b) CO:2, BL:2

- Q1)** a) What are the DTDs? Explain how do they work? [5]  
b) Explain how to create and read array elements in java script. [5]

OR

Q2a) CO:1,BL:1  
Q2b) CO:2,BL:2

- Q2)** a) List and discuss any three HTTP commands. [5]  
b) Write a program of your choice that demonstrate use of properties of DOM. [5]

Q3)CO:3,BL:2

- Q3)** a) What is use of ThreadSafe in JSP? Also Explain Single Thread Model in JSP. [5]  
b) List and elaborate any five JSP implicit objects with examples. [5]

OR

Q4a)CO:2, BL:1  
Q4b)CO:3, BL:2

- Q4)** a) Explain the different Data Types available in JavaScript. [5]  
b) What is use of JSP action tags? Discuss in details jsp:useBean action tag. [5]

P.T.O.

- Q5)** a) Draw and explain how AJAX works with the help of suitable example. [6]
- b) What is use of XMLHttpRequest Object? Explain its use with the help of simple javascript code. [6]
- c) Classify data type of PHP and describe various data types in each type. [4]

OR

**Q5) CO:4**  
**a)BL:2, b)BL:3, c)BL:2**

- Q6)** a) What is an associate arrays in PHP? Explain it with the help of simple PHP code. [6]
- b) Identify and explain steps involved in connecting to MySQL with PHP. [6]
- c) Write different applications without AJAX and with AJAX. [4]

**Q6)CO:4,BL:2**

- Q7)** a) Does Angular JS supports Single Page Application via multiple views on a single page? Justify your answer. [6]
- b) Draw and explain neat diagram which depicts MVC to the struts architecture. [6]
- c) List and explain events supported by AngularJS to enrich form filling and validation. [4]

**Q7 CO:5,**  
**a) BL:4,b)BL:2, c):BL:2**

OR

- Q8)** a) How to use interceptors in struts 2? List and describe important interceptors provided by struts 2 framework. [6]
- b) What are different ways to create service in AngularJS? Explain Separation of concern in AngularJS. [6]
- c) Write short note on NodeJS. [4]

**Q8 CO:5,**  
**a) BL:2, b) BL:2, c) BL:1**

- Q9)** a) What is Enterprise Java Bean? Draw and explain main components of EJB architecture. [8]
- b) Identify and justify the benefits of using web services. [6]
- c) Write a short note on Spring. [4]

**Q9 CO:6**  
a)BL:2, b) BL:4, c)BL:1

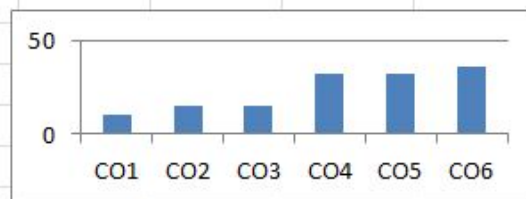
OR

- Q10)** a) Decide and explain various aspects while deciding between local and remote interface can be considered. [8]
- b) Draw and explain the role of EJB container in Enterprise applications. [6]
- c) Write a short note on Bootstrap. [4]

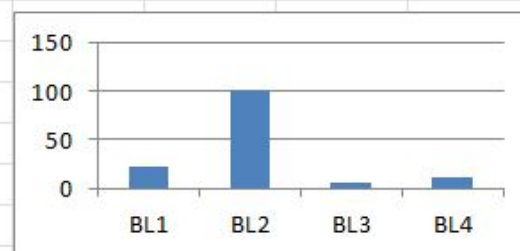
**Q10 CO:6**  
a)BL:2, b)BL:2, c)BL:1

**Summary Course Out Come**

Course Outcome	Marks
CO1	10
CO2	15
CO3	15
CO4	32
CO5	32
CO6	36



Bloom's Taxonomy	Marks
BL1	22
BL2	100
BL3	6
BL4	12



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