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Total Number of Pages: 2

MCA  
MCC503

**5th Semester Regular/Back Examination – 2015-16  
INTERNET TECHNOLOGY AND ENTERPRISE JAVA**

**BRANCH(S): MCA**

**Time: 3 Hours**

**Max Marks: 70**

**Q.CODE:T381**

**Answer Question No.1 which is compulsory and any five from the rest.  
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions: (2 x 10)
- a) Differentiate between classful and classless internet addresses?
  - b) Define a client server model? Give examples?
  - c) Differentiate among URL, URN and URI?
  - d) What is CSS? How it is useful in web designing?
  - e) What are the features of XHTML?
  - f) What are the two types of servlets which are implemented in J2EE?
  - g) What is CDI? What is the utility of it?
  - h) Which API helps in object/relational mapping facility for managing relational data in Java applications? Give an Example?
  - i) Briefly describe the security features of Java EE?
  - j) Which service enables java EE components to locate other components and resources? Give an example?
- Q2 Define a servlets? What are the servlet life cycle methods? Write down a servlet program to greet the user with his name? (10)
- Q3 Discuss EJB life cycle with proper illustration on the type of beans used? (10)
- Q4 a) Write down a java script to calculate the age of a person given his birth date? (10)
- b) Define a XML schema? How do you parse XML document, explain with an example?
- Q5 a) How do you make an image clickable in HTML? Give an example. (5)
- b) Design a form for a publishing house called X that allows the books to be ordered via the Internet. The form should include the customer's name, address, phone no. and Boo's title, author and edit ion. Payment has to be made in cash on delivery so no credit card information is needed. (5)
- Q6 a) What are the major components of a web browser? Draw a neat diagram to explain them. (5)
- b) What is JSF? How they are more efficient than servlets, explain? (5)
- Q7 a) What are two reasons for using layered protocol? (5)

b) Discuss the life cycle of JSP with suitable example?

(5)

Q8 Write Short Notes (Any Two)

(5 x 2)

- a) CIDR
- b) AJAX
- c) JAX-WS
- d) JSTL