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MANIPAL INSTITUTE OF TECHNOLOGY
(Constituent Institute of Manipal University)
MANIPAL-576104



SEVENTH SEMESTER EXAMINATION

Nov - 2009

SUBJECT : JAVA ENTERPRISE EDITION [JEE-CSE 403.6]
(REVISED CREDIT SYSTEM)

TIME : 3 HOURS

MAX.MARKS : 50

Note: 1. Answer any five full questions .

- 1 a) With a neat diagram explain the architecture of JEE? 3
b) Explain the directory structure of a WEB application? 3
c) What is the difference between a web server and an application server? 4
- 2 a) What is a JSP? What is it used for? What do you understand by the term JSP translation phase or compilation phase? 1+1+2+2 = 6
b) What are the main elements of JSP? What are scriptlets? What are expressions? 2+ 1+1=4
- 3 a) What are the advantage of servlets over other common server extension mechanism? 2
b) How are servlet filters useful in web applications? 2
c) What is servlet mapping ? What are the services provided by the servlet containers ? 1+2= 3
d) What are the different types of the jdbc drivers ? 3
- 4 a) Explain MVC architecture relating to J2EE? 3
b) Explain the basic and form based authentication? 3
c) What is struts ?How struts works ?What is the role of configuration file in struts ? 1+2+1=4
- 5 a) What are the different types of enterprise Beans ? 3
b) What are the transactional attributes that EJB supports? 2
c) What is the difference between java bean and EJB? What is new in EJB 3.0 ? 3+ 2 =5
- 6 a) Explain the architecture of hibernate with the help of neat diagram ? 4+1 =5
b) What is persistence ?Explain the usage of persistence in object oriented applications ? 1 +4 =5