

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – I • EXAMINATION – WINTER 2012****Subject code: 712302N****Date: 09-01-2013****Subject Name: Advance Web Technology****Time: 02.30 pm – 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the alert(), prompt() and confirm() functions of java script with appropriate example. Also mention difference between alert() and confirm() functions. **07**
- (b) Explain the init(), service() & destroy() methods in servlet life cycle. Which method is more suitable for creating database connection object? Justify your answer. **07**

- Q.2** (a) What are the problems with the classical web application model? How it is solved using AJAX? Explain synchronous and asynchronous mode of communication. **07**
- (b) Design a HTML web page for registering student in Gujarat Technological University's online examination portal. Web page should have minimum four different types of html control. Also include external style sheet to design the web page. **07**

OR

- (b) Design the HTML login page for the student to login into Gujarat Technological University's online examination portal. Assume there are three servlets named StartExam.do, ViewResult.do and Logout.do respectively. Create, maintain and invalidate HTTP session object in given web portal. **07**

- Q.3** (a) What are the different types of events and event handler in J2EE web container? Explain the ServletContext life-cycle event handling. **07**
- (b) Design the JSP page for Library due calculation with Enrollment No, Student Name, Book Name, Number of days as fields in JSP page. Calculate and display required information along with the total amount to be paid by student, in other JSP page using standard action <jsp:useBean>, <jsp:setProperty>, <jsp:getProperty> only. Fine is to be calculated at rate of 50 Rs/per day basis. **07**

OR

- Q.3** (a) Explain the given attributes of JSP directives with example. **07**
i) errorPage ii) import iii) file
- (b) Design the JSP page for Library due calculation with Enrollment No, Student Name, Book Name, Number of days as fields in JSP page. Calculate and display required information along with the total amount to be paid by student, in other JSP page using EL only (scriptlet/expression are not allowed). Fine is to be calculated at rate of 50 Rs/per day basis. **07**

- Q.4 (a)** Discuss the following JSTL tag in detail. **07**
i) <c:choose> ii) <fmt:formatDate>
- (b)** Explain the life cycle of Simple Tag handlers. **07**
- OR**
- Q.4 (a)** Design the HTML web page for searching train with two textbox source station, destination station and submit button. Design other JSP which displays all the trains from source to destination using SQL tags. **07**
- Q.4 (b)** What is JPQL? Design sample application using JPQL Book information containing Book Name, Author Name, Price, Publisher Name. **07**
- Q.5 (a)** Explain the UIInput and UIOutput Component of JSF. **07**
- (b)** What is Java Persistent? How entity can be mapped to Java Object, show it using Object Relation Mapping in Java Persistent API. **07**
- OR**
- Q.5 (a)** Explain the UIPanel and UISelectMany Component of JSF. **07**
- (b)** Explain various JSP implicit objects in detail. **07**
