



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/M.Tech(CSE)/SEM-1/MCS-104(A)/2012-13**

**2012**

**WEB TECHNOLOGY & E-COMMERCE**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

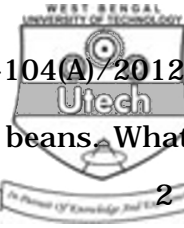
*Candidates are required to give their answers in their own words as far as practicable.*

Answer any five questions.  $5 \times 14 = 70$

1. a) What are the differences among web browser, web server and web portal ? Give examples. What is image map in a web browser ? How is it created in a web page using HTML ? 2 + 1 + 2 + 4
- b) Write some typical features of a markup language. What is the relation of HTML and XML to SGML ? Write the syntax of TABLE tag and its implementation in a web page. 2 + 1 + 2
2. a) What are the varieties of subgroup selectors in CSS1 ? Give examples. 6
- b) Write HTML/JavaScript code for taking user's login id and password from a web page. Also incorporate JavaScript code for verifying whether the password is more than eight character length or not and provide message accordingly. 5
- c) What is DOM ? Give the object hierarchy in DOM. 3



3. a) Give the block diagram for explaining the generic framework of e-commerce. 5
- b) What is software agent ? Write the different properties of e-cash. 2 + 4
- c) Differentiate between symmetric and asymmetric key crypto system. 3
4. a) What are the different internet access methods ? What are the important advantages and disadvantages of e-commerce ? 2 + 5
- b) What are the main functions of an e-market ? Give the typical steps of B2C transactions. 2 + 5
5. a) What is the use of server side includes ? What are the drawbacks of Client-Server architecture ? 2 + 2
- b) Draw the block diagram of J2EE architecture and explain briefly. Give a brief comparison among JSP and ASP. 3 + 2
- c) What do you understand by JDBC-ODBC bridging ? Write a program using VB scripts which will insert the student information ( StdRegNo, StdName, Yr.of.join, Address, Contact No) in Student\_Master table & front end validation will done by JavaScript. 2 + 3



6. a) Compare between EJB and simple Java beans. What is the usage of stateless session bean ?  $2 + 2$
- b) What are the services provided by the EJB container ? Explain XML DTD and schemas.  $3 + 3$
- c) Write a simple servlet program which will update the values to the student table in oracle database.  $4$
7. a) What is cookie ? Describe briefly the various ways of handling session of Servlet.  $2 + 3$
- b) What is the difference between HTML and XML ? What are the basic objects used in VB scripts ?  $2 + 3$
- c) Whether main method is used in Servlet program and why ? What are the differences of using prepared statement and callable statement ?  $2 + 2$
8. a) Describe the various types of Directives used in JPS with a suitable example. Describe the lifecycle of applet.  $3 + 2$
- b) Write a simple Java Bean which will store Employee data & write a JSP program by which it can access the properties of the Java bean.  $4$
- c) Explain the N-Tier architecture. Explain the entity bean briefly.  $3 + 2$

CS/M.Tech(CSE)/SEM-1/MCS-104(A)/2012-13



9. Write short notes on any *four* from the following :  $4 \times 3 \frac{1}{2}$

- a) E-SCM
  - b) Search Engine
  - c) Semantic web
  - d) ISP
  - e) Java applet life cycle
  - f) SAX Parser
  - g) Message Driven Bean
  - h) JSP life cycle.
-