

**B.Tech. - VIEP - COMPUTER SCIENCE AND  
ENGINEERING (BTCSVI)**

**Term-End Examination**

**December, 2018**

00033

**BICS-023 : WEB TECHNOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions. All questions carry equal marks.*

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1. (a) Explain the advantages of XML over HTML. 5
- (b) Briefly describe major goals of the EJB specification. 5
2. (a) Briefly explain Servlet life cycle. 6
- (b) Explain the need of web server. 4
3. (a) Write HTML code for user registration form for an online shopping website. 6
- (b) Explain use of JSP `<jsp : include>` action element with the help of example. 4

4. (a) Create an XML document that stores the following information of savings account : 5
- Name
  - Account No.
  - Branch Name
  - Address
  - Mobile No.
- (b) Explain GET and POST methods used in web application development. 5
5. Explain the features of Cascading Style Sheets (CSS). 10
6. What is session tracking ? Explain different ways of session tracking in Servlet Programming. 10
7. Write servlet code to connect database using JDBC. 10
8. Explain life cycle of stateless session beans and stateful session beans with the help of diagrams. 10
9. Differentiate between following :  $2 \times 5 = 10$
- (a) DOM and SAX
  - (b) Java Script and JSP

10. Write short notes on any **four** of the following :

$$4 \times 2 \frac{1}{2} = 10$$

- (a) TCP/IP
  - (b) Tomcat Server
  - (c) Struts Framework
  - (d) Java Beans
  - (e) Cyber Laws
  - (f) Web Application
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