

Code: CS6T1

**III B.Tech - II Semester – Regular/Supplementary Examinations  
AUGUST 2021**

**ADVANCED JAVA AND WEB TECHNOLOGIES  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) Mention the different types of links.
- b) Mention the various form elements.
- c) What is the use of frames in HTML and give the syntax of it.
- d) What does data binding mean?
- e) What are dense arrays?
- f) What do you mean by DTD in XML?
- g) Write note on manifest file in Java Beans.
- h) What are the benefits of PreparedStatement over Statement?
- i) What is the difference between ServletContext and ServletConfig?
- j) What does destroy and service method in the life cycle of a servlet?
- k) What is JSP? What role the directives play in JSP?

## PART – B

Answer any *THREE* questions. All questions carry equal marks. 3 x 16 = 48 M

2. a) What is HTML? Discuss how do you create user registration forms using HTML Tags with suitable examples? 10 M
- b) What do you understand 3-tier web architecture? 6 M
3. a) Write a script illustrating Java Script events. 8 M
- b) Write a Java Script program that asks for user name, password, mail id, phone number fields in HTML file and validate them by taking assumptions. 8 M
4. a) What is the purpose of XML schema and DTD in web environment? Explain with an example mentioning the advantages of XML schema over DTD. 8 M
- b) What are Java Bean properties? Explain each of them with an example. 8 M
5. a) Explain how JDBC performs mapping between JAVA and SQL data types. 8 M
- b) Discuss detail about Servlet API. 8 M

6. a) Write and discuss a Servlet program for reading Servlet parameters and reading initialization parameters.

8 M

b) Explain how error handling and debugging will be done in JSP?

8 M