

Hall Ticket Number:

Y 1 8 A C 5 9 7 6

18CS503

III/IV B.Tech (Regular) DEGREE EXAMINATION

February, 2021

Fifth Semester

Time: Three Hours

Computer Science and Engineering

Enterprise Programming

Maximum : 50 Marks

Answer ALL Questions from PART-A.

(1X10 = 10 Marks)

Answer ANY FOUR questions from PART-B.

(4X10=40 Marks)

1. Answer all questions

(1X10=10 Marks)

- a Differentiate between PUT and POST operations in REST API
- b Name the types of JDBC drivers?
- c Write the syntax of JSP expression tag.
- d List any two implicit objects in JSP?
- e Write the syntax for <c:if> tag.
- f Name the annotation with which url mapping of a servlet can be done.
- g What does JSTL stand for?
- h Name two types of Session beans
- i What is the protocol used by web sockets?
- j What is the header sent by a client socket in the initial handshake?

### Part - B

- 2.a Name the different APIs for the development of JAVA EE Applications and explain about Java EE platform architecture with a neat sketch. 5M
- b Code a servlet that takes Regd.No. and the Name of a student and inserts in the *rolls* table of *student* database. 5M
- 3.a Explain the classes and interfaces needed to code a JDBC application. 5M
- b Design a JDBC program that connects to a *dept* table of *emp* database and prints the details of all the departments. 5M
- 4.a Design a JSP to find the factorial of a given number and sends it as response. 5M
- b Explain all the implicit objects available in a JSP. 5M
- 5.a Code a JSF application which registers a user with a name (required) and an email id (to be validated). Design the backing bean with all the needed methods. 5M
- b Explain any three managed bean scopes. 5M
- 6.a Explain the web services and REST API. 5M
- b Code of a web service providing GET and POST operations on a collection of resources. Design the resource class. 5M
- 7.a Explain the working model of websockets and its life cycle events. 5M
- b Code and explain a web socket client. 5M
- 8.a Explain the features of EJB and different types of beans and interfaces. 5M
- b Code a session bean with local interface and a web client. 5M
- 9.a Explain the annotations and the life cycle of a stateful session bean. 5M
- b Code a session bean that takes temperature in Fahrenheit and returns its Celcius equivalent. 5M