Name: **Student University Roll No.:**	**Printed Pages: 1**
School of Engineering **Second Sessional Examination,** **Odd Semester (AS: 2024-25)** **B. Tech:CSE(IOTBC3) Year:III**	**Semester: V**
Course Title: Web Services **Course Code: ITBC3503**	**M.M.: 30** **Time: 1 hr**

Instructions if any: Read the question Carefully.

	SECTION 'A' **Q.N.1. Attempt all parts of the following:**	**Course Objective**	**Marks**
a)	What is the purpose of the @Param annotation in JAX-RS?	**CO3**	**1**
b)	How does JAX-RS handle HTTP status codes when sending responses?	**CO3**	**1**
c)	Explain Jax-rs.	**CO3**	**1**
d)	What is the Contract-First approach for creating SOAP web services?	**CO4**	**1**
e)	What is the function of WSDL in SOAP web services?	**CO4**	**1**
	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	Explain how to define the XML structure for a SOAP request and response in a Spring Boot web service application.	**CO4**	**7.5**
b)	Describe content negotiation in HTTP.	**CO3**	**7.5**
c)	Describe the difference between transport-level security and application-level security in web services, and explain their importance.	**CO4**	**7.5**
	SECTION 'C' **Q.N.3. Attempt any one part of the following**	**Course Objective**	**Marks**
a)	Explain request and response XML structures with XSDs.	**CO3**	**10**
b)	What is the future of web development, especially in terms of web services?	**CO4**	**10**
c)	Demonstrate how to create a JAX-RS client in Java and send both GET and POST requests to a RESTful web service.	**CO4**	**10**

Table 1: Mapping between COs and questions

(Number of COs may vary from course to course)

COs	Questions Numbers	Total Marks
CO3	1(a),1(b),1(c),2(b),3(a)	20.5
CO4	1(d),1(e),2(a),2(c),3(b),3(c)	37

05.12.2024