Student Name:	Printed Pages:01
University Roll No.:	

School of Engineering
Second Theory Sessional Examination
Even Semester (AS: 2024-25)

B. Tech: CSE (IOTBC) **[Year: 3rd] [Semester: 6th]**

Course Title: Deployment of Cloud	Max Marks: 30
Course Code: ITBC3601	Time: 1*hrs*

Instructions: 1-Mention any assumptions made.
2-Notations have usual meaning.

	SECTION 'A' **Q.N.1. Attempt all parts of the following:**	**Course Objective**	**Marks**
a)	Define Synchronous and Asynchronous callback.	**CO3**	**1**
b)	What is the function of a load balancer in master slave architecture?	**CO4**	**1**
c)	Write the main purpose of node.js?	**CO3**	**1**
d)	What is the role of the hypervisor in a machine?	**CO4**	**1**
e)	List IBM Watson services available on IBM Cloud.	**CO2**	**1**
	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	Discuss the features and benefits of IBM Cloudant. Explain how REST APIs can be used to interact with the Cloudant database.	**CO2**	**7.5**
b)	Describe cloud resource provisioning and monitoring.	**CO4**	**7.5**
c)	Explain the role of Docker in containerization and describe the use of Docker Hub in modern application deployment.	**CO4**	**7.5**
	SECTION 'C' **Q.N.3. Attempt any one parts of the following:**	**Course Objective**	**Marks**
a)	Explain the architecture of Representational State Transfer (REST).	**CO2**	**10**
b)	What are containers? Discuss how IBM Cloud Container Registry is used for managing container images.	**CO4**	**10**
c)	What is Kubernetes? Explain the key capabilities of Kubernetes in the context of cloud-native application orchestration.	**CO4**	**10**

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO2	Q1 (e), Q2 (a), Q3 (a)	18.5
CO3	Q1 (a, c)	2
CO4	Q1 (b, d), Q2 (b, c), Q3 (b, c)	37

02.05.2025