



**B.TECH DEGREE EXAMINATIONS: NOV/DEC 2023**

(Regulation 2018)

Seventh Semester

**INFORMATION TECHNOLOGY**

U18ITI7202: Cloud Computing

**COURSE OUTCOMES**

- CO1:** Develop private cloud using tools  
**CO2:** Identify cloud service and its applications  
**CO3:** Illustrate functions of web service with cloud service  
**CO4:** Apply virtualization concepts for real time problems

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 2 = 20 Marks)**

**(Answer not more than 40 words)**

- |  |     |                   |
|--|-----|-------------------|
| 1. List out some popular companies providing cloud service and Give the best Fit for Education sector. | CO2 | [K <sub>3</sub> ] |
| 2. Why should one prefer public cloud over Private cloud?  | CO1 | [K <sub>3</sub> ] |
| 3. What is infrastructure as a service? Give a real time example.                                      | CO3 | [K <sub>2</sub> ] |
| 4. Outline the challenges Involved in Cloud computing.   | CO2 | [K <sub>2</sub> ] |
| 5. Specify any one tool which is used to create the Private cloud .                                    | CO1 | [K <sub>3</sub> ] |
| 6. Define the Elastic compute Cloud(EC2).  | CO3 | [K <sub>2</sub> ] |
| 7. What is the need of virtualization in multi-core processor?   | CO4 | [K <sub>3</sub> ] |
| 8. Illustrate communication as a service with a neat diagram.  | CO2 | [K <sub>2</sub> ] |
| 9. What is Hypervisor?   | CO4 | [K <sub>2</sub> ] |
| 10. What is role of Cloud computing in Social networks?  | CO3 | [K <sub>2</sub> ] |

**Answer any FIVE Questions:-**

**PART B (5 x 16 = 80 Marks)**

**(Answer not more than 400 words)**

- |   |   |     |                   |
|---|---|-----|-------------------|
| 11. a) Illustrate the characteristics of cloud Computing with examples.   | 8 | CO2 | [K <sub>2</sub> ] |
| b) Discuss about Eucalyptus and their functionalities with a neat sketch. | 8 | CO2 | [K <sub>2</sub> ] |
| 12. a) Explain about cloud deployment models.                             | 8 | CO2 | [K <sub>2</sub> ] |

	b)	Discuss the components of Amazon EC2 with its functionalities in detail.	8	CO3	[K <sub>2</sub> ]
13.	a)	Explain in detail about Google App Engine with its characteristics.	8	CO3	[K <sub>2</sub> ]
	b)	Elaborate the Project management cloud with a real time example	8	CO3	[K <sub>3</sub> ]
14.	a)	Discuss about Virtual machine monitor.	8	CO4	[K <sub>2</sub> ]
	b)	Distinguish between system virtual machine and process virtual machine with example.	8	CO4	[K <sub>3</sub> ]
15.	a)	Discuss about the Map Reduce Filter Algorithm with an example.	8	CO3	[K <sub>3</sub> ]
	b)	What is virtualization? Describe para and full virtualization architectures.	8	CO4	[K <sub>2</sub> ]
16.	a)	Discuss about Xen, VMWare in detail	8	CO4	[K <sub>2</sub> ]
	b)	Compare binary translation with full virtualization.	8	CO4	[K <sub>3</sub> ]

\*\*\*\*\*