

M.Sc. - I (Computer Science) (NEP Pattern) Semester-I
NEP-24-1 / 01MSCCS04.1 - Paper-IV - Elective-I - Cloud Computing

P. Pages : 2

Time : Three Hours



GUG/W/24/15081

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data whenever necessary.
 3. Avoid vague answer and write specific answer related to question.

Either:

1. a) Explain the concept of cloud computing and its primary service models? 8
- b) Write down the challenges of cloud computing. 8

OR

- c) Explain the main types of cloud. Provide example for the cloud type would be most appropriate. 8
- d) Explain the key feature of cloud computing. How do these feature contribute to flexibility and efficiency of cloud. 8

Either:

2. a) Explain how do the key benefits of adopting cloud models for business. 8
- b) Define and differentiate between the following cloud models 8
 - a) SaaS
 - b) PaaS

OR

- c) What is the role of HDFS in the Hadoop framework? 8
- d) What is the function of MapReduce in processing large datasets? 8

Either:

3. a) Explain How is network security management in cloud environments. 8
- b) What is the purpose of web APIs in accessing cloud services? 8

OR

- c) What are the main advantages of using cloud storage. 8
- d) Write a note on- 8
 - i) Task Management
 - ii) Project management

Either:

- 4. a) Explain term virtualization? State their Advantage and Disadvantage in IT Infrastructure. 8
- b) How does a Virtual Machine Monitor (VMM) Manage Virtual Machine? Explain. 8

OR

- c) What is a notable feature of Hyper-V? 8
- d) How does SaaS security differ from other cloud service models? Explain. 8

5. Solve all the questions.

- a) State Advantages and Disadvantages of cloud computing. 4
- b) Differentiate between Public and Private Cloud. 4
- c) Explain Contact Management. 4
- d) Explain Types of Virtualization. 4
