



B.Tech VII Semester Regular/Supplementary Examinations, November 2022

CLOUD COMPUTING
(Professional Elective)
(Computer Science and Engineering)

Maximum Marks: 70

Date:03.12.2022 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Differentiate cluster computing and grid computing.
- 2 List the features of Public cloud.
- 3 List the main characteristics of cloud computing.
- 4 State Deployment models of cloud computing.
- 5 Tabulate examples provided by platform as a service.
- 6 List out the characteristics of SaaS.
- 7 Outline the main services that are offered by AWS.
- 8 Give some of the Applications of Google App Engine.
- 9 Define the cloud access terms - authentication, authorization and accounting.
- 10 Interpret federation of cloud.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. Illustrate in detail about grid computing. (5)
B. Elaborate in detail about utility computing. (5)
- OR
- 12 A. Write down the difference between centralized computing and distributed computing. (5)
B. Discuss the system models of cloud computing. (5)
 - 13 A. List and discuss the principles for designing public cloud, private cloud and Hybrid cloud. (5)
B. Briefly discuss the architectural design challenges of the cloud. (5)
- OR
- 14 Discuss in detail about Hypervisor with suitable example. (10)
 - 15 A. Discuss the features of Infrastructure as a service (IaaS). (5)
B. Describe in detail about XaaS with example. (5)

OR

- 16 Elaborate on the services of Web Services 2.0 in detail with relevant examples. (10)
- 17 A. Describe in detail about Microsoft Azure. (5)
B. Discuss in detail about functional modules of Google App Engine. (5)
- OR
- 18 Enumerate in detail on the parallel and distributed paradigms for cloud. (10)
- 19 A. Examine the role of security governance for cloud. (4)
B. Explain in detail about security monitoring and application security. (6)
- OR
- 20 A. Discuss in detail about cloud reliability and fault-tolerance. (5)
B. Analyze on the interoperability and standards for cloud architecture. (5)