

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2024 - 2026 ONLY)**

24PCS207

REG.NO.

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : May 2025

M.Sc. Computer Science

MAXIMUM MARKS: 75

SEMESTER: II

TIME : 3 HOURS

24PCS207-CLOUD COMPUTING

Section - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

1) Which of the following initiatives of dynamic cloud infrastructure reduce operating cost, improve responsiveness and utilize resources? **(K1)**

- a) Asset management.
- b) Virtualization and Consolidation.
- c) Service Management.
- d) Information Infrastructure.

2) _____ is used to bill the costs of cloud Infrastructure Services. **(K1)**

- a) Virtualization.
- b) Resource Automation.
- c) Chargeback.
- d) Image pools.

3) _____ clouds are deployments made inside the company's firewall. **(K1)**

- a) Private.
- b) Public.
- c) Hybrid.
- d) Community.

4) What concept was introduced by Cloud Computing? **(K1)**

- a) Software-as-a-service.
- b) Platform-as-a-service.
- c) Storage-as-a-service.
- d) IT-as-a-service.

5) The cost model of cloud business must be _____. **(K1)**

- a) Complex.
- b) Complete.
- c) Equitable.
- d) Reasonable.

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

6) Write the characteristics of cloud computing. **(K2)**

7) Define: "Execution Virtualization". **(K2)**

8) Illustrate the functions of Platform as a Service. **(K2)**

9) Write a note on Azure SQL. **(K2)**

10) What are the advantages of social networking? **(K2)**

SECTION – B (5 X 5 = 25 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.**

11) a) Discover the vision of Cloud Computing. **(K3)**
(OR)
 b) Distinguish between the Service-Oriented computing and Utility-Oriented computing. **(K3)**

12) a) Determine the different types of Virtualization. **(K3)**
(OR)
 b) Evaluate the pros and cons of Virtualization. **(K3)**

13) a) Summarize the need of Cloud Interoperability and standards. **(K3)**
(OR)
 b) Estimate the anatomy of the Aneka container. **(K3)**

14) a) Examine the characteristics data-Intensive computations. **(K3)**
(OR)
 b) Outline the architecture and core concepts of Google App Engine. **(K3)**

15) a) Illustrate the ECG analysis in the Cloud. **(K3)**
(OR)
 b) Describe the technologies for Cloud Federations. **(K3)**

Section-C (5 X 8 = 40 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K4 (Or) K5)**

16) a) Elaborate the hardware architectures for Parallel Processing. **(K4)**
(OR)
 b) Analyze the architectural styles for Distributed Computing. **(K5)**

17) a) Demonstrate the characteristics of virtualized environments. **(K5)**
(OR)
 b) Assess the importance of Virtualization and Cloud Computing. **(K4)**

18) a) Draw and explain the general architecture of cloud reference model. **(K5)**
(OR)
 b) Compare and contrast the Public clouds and Private clouds. **(K4)**

19) a) Elucidate the technologies for data-intensive computing. **(K4)**
(OR)
 b) Conclude the implementation of Aneka MapReduce programming. **(K5)**

20) a) Integrate the purpose of Cloud Federation stack. **(K5)**
(OR)
 b) Enumerate the technologies and initiatives supporting MOCC. **(K4)**
