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Question Paper Code : 50419

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2024.

Fifth/Sixth Semester

Computer Science and Design

CCS 336 — CLOUD SERVICES MANAGEMENT

(Common to : Computer Science and Engineering/Computer Science and Engineering (Artificial Intelligence and Machine Learning)/Computer Science and Engineering (Cyber Security)/Computer and Communication Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Instrumentation and Control Engineering/Artificial Intelligence and Data Science/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give brief note on digital transformation strategy.
2. What do you mean by resource pooling? Give an example.
3. List the issues in the transition to cloud services.
4. How will you manage demand and capacity matching in cloud services?
5. Write a note on benchmarking of cloud services.
6. What do you mean by cloud marketplace? Give an example.
7. Compare between pay per user and pay per reservation with an example.
8. List the various pricing models for cloud services.
9. Differentiate between cloud governance and cloud management.
10. What do you mean by cloud service model risk matrix?

PART B — (5 × 13 = 65 marks)

11. (a) (i) Exemplify in detail about the essential characteristics of cloud computing. (6)
(ii) Discuss in detail about the different types of cloud service models with its applications. (7)

Or

- (b) (i) Write down the essential characteristics of cloud ecosystem with examples. (6)
(ii) Describe in detail about the different cloud deployment models. (7)

12. (a) Illustrate in detail about cloud strategy management framework and functionalities with neat diagram and examples.

Or

- (b) (i) Describe about cloud service architecture with neat diagram. (6)
(ii) Exemplify in detail about demand queuing strategy with relevant example. (7)
13. (a) (i) Discuss in detail about cloud service capacity planning strategies and best practices. (7)
(ii) With neat diagram, illustrate the cloud service lifecycle with functionalities. (6)

Or

- (b) (i) Describe in detail about the cloud service reference model and design parameters. (7)
(ii) Explain about cloud migration strategies, deployment methods and its solutions. (6)
14. (a) (i) Compare and contrast between Capex and Opex Shift in cloud economy. (6)
(ii) Exemplify in detail about various cloud cost models and its applications. (7)

Or

- (b) Illustrate in detail about subscription based cost charging model, its merits and demerits, implications and implementation issues with an example application.
15. (a) (i) Write in detail about measuring the value of cloud services with an example. (6)
(ii) Explain about cloud governance structure and its importance for an organization value. (7)

Or

- (b) (i) Discuss in detail about cloud governance framework and Structure. (8)
(ii) How do you measure the value of cloud services? Explain using various tools and metrics. (5)

PART C — (1 × 15 = 15 marks)

16. (a) Decode the scalability of Disney + Hotstar App, cloud architecture, concurrency control meet the increasing demands for content delivery, security, cost-effectiveness and workflow with neat diagram..

Or

- (b) Exemplify in detail about Amazon Web Services (AWS) cloud model in the following aspects with relevant applications.
- (i) pay-as-you-go pricing model.
 - (ii) security and compliance
 - (iii) freemium
 - (iv) pay per user/registration
 - (v) diverse services.