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**Question Paper Code: U2203**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Professional Elective

Computer Science and Business Systems

21CSV203-CLOUD ESSENTIALS

(Régulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10 x 1 = 10 Marks)

1. Which cloud deployment model involves the sharing of cloud resources among multiple organizations? CO1- U  
(a) Public Cloud      (b) Private Cloud      (c) Community Cloud      (d) Hybrid Cloud
2. Which cloud service model provides software applications over the internet? CO1- U  
(a) Infrastructure as a Service (IaaS)      (b) Platform as a Service (PaaS)  
(c) Software as a Service (SaaS)      (d) Function as a Service (FaaS)
3. What are the fundamental principles of cloud strategy? CO1- U  
(a) Scalability and elasticity.      (b) Server virtualization  
(c) Local storage      (d) Mainframe computing
4. Which aspect of cloud strategy is concerned with adapting to changes effectively? CO1- U  
(a) Change management      (b) Capacity management  
(c) Risk management      (d) Demand management
5. Which of the following is not a commonly used cloud service model? CO1- U  
(a) Infrastructure as a Service (IaaS)      (b) Platform as a Service (PaaS)  
(c) Software as a Service (SaaS)      (d) Data as a Service (DaaS)

6. What does SaaS stand for in the context of cloud computing? CO1- U  
 (a) Software and Applications System (b) Secure Application Service  
 (c) Software as a Service (d) Service System
7. What is a virtual machine in the context of cloud computing? CO1- U  
 (a) A physical computer (b) A software-based emulation of a computer  
 (c) Storage device (d) A network protocol
8. How does cloud computing support remote access to resources? CO1- U  
 (a) By requiring physical presence at data centers  
 (b) By limiting access to resources  
 (c) By slowing down resource access  
 (d) By enabling users to access resources from anywhere with an internet connection
9. What is the term for the practice of renting or leasing cloud infrastructure and services on a pay-as-you-go basis? CO1- U  
 (a) Cloud subscription (b) Cloud reservation  
 (c) Cloud onboarding (d) Cloud consumption
10. List out the Perspectives in Balanced Scorecard Framework: CO1- U  
 (a) Financial Perspective (b) Customer and Internal Business Processes  
 (c) Learning and Growth (d) All of them

PART – B (5 x 2= 10Marks)

11. What are the main challenges in cloud service management, and how can they be addressed? CO1-U
12. How does cloud strategy impact IT capacity and utilization? CO1-U
13. What is Virtualization? CO1-U
14. How would you explain Service Level Agreements (SLAs) CO1-U
15. What are the Need for Risk Management? CO1-U

PART – C (5 x 16= 80Marks)

16. (a) Elaborate on the challenges faced by organizations when transitioning to cloud-based services, and discuss strategies to overcome these challenges CO1-U (16)

Or

- (b) Explain in detail about the Cloud service life cycle. CO1-U (16)

17. (a) Discuss the role of cloud strategy in cost optimization for IT services. CO1-U (16)
- Or
- (b) Discuss the role of governance in shaping cloud policy and its impact on overall cloud strategy. CO1-U (16)
18. (a) Explain detail about the Dealing with Legacy Systems and Services. CO1-U (16)
- Or
- (b) Describe the detail about the Cloud service capacity planning. CO1-U (16)
19. (a) Explain in details about Pricing models for Cloud Services. CO1-U (16)
- Or
- (b) Explain in details about pay per reservation pricing models. CO1-U (16)
20. (a) Explain detail about the Understanding Value of Cloud Services and characteristics of balanced score card CO1-U (16)
- Or
- (b) Explain the details about the Total Cost of Ownership in cloud computing. CO1-U (16)

