

SRM University
Department of Information Technology
15IT1024 IT-1024 PRINCIPLES OF CLOUD COMPUTING
CYCLE TEST-II

SET B

Year/Sem:VII/IV
 Duration:3HRS

Date:27-10-2017
 Max Marks:100

Register Number

R	A	1	4	1	1	0	0	8	0	1	0								
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INSTRUCTIONAL OBJECTIVES

Understand the technique of virtualization through theoretical concepts and practical training
 Become knowledgeable in the rudimentary aspects of cloud application development

STUDENT OUTCOME COVERED BY THIS ASSESSMENT COMPONENT

- i. An ability to use current techniques, skills, and tools necessary for computing practice.
 - I. An ability to understand current techniques and Skills
 - II. An ability to understand tools necessary for computing practice
- I. An ability to effectively integrate IT-based solutions into the user environment
 - I An ability in integrating previous knowledge and new information
 - II An ability to integrating information in to IT based solutions into user environment.

Mark Allotment

Question No	Objective	Outcome	Answer [a]	Total	Outcome Met/Not
1	IO2	L1			
2	IO2	L1			
3	IO2	L1			
4	IO2	L2			
5	IO2	L2			
6	IO3	I1			
7	IO3	I1			
8	IO3	I1			
9	IO3	I1			
10	IO3	I2			
11	IO3	I1			
12	IO3	I2			
13	IO3	I2			
14	IO3	I1			
15	IO3	I2			
16	IO3	I1			
17	IO3	I2			
18	IO3	I2			
19	IO3	I1			
20	IO3	I2			
21	IO3	I1			
22	IO3	I2			
23	IO3	I2			
24	IO3	I2			
25	IO3	I2			
26	IO3	I1			
27	IO3	I2			
28	IO3	L2			
29	IO3	I1			
30	IO3	I2			
31	IO3	I1			
32	IO3	I2			

alMarks(100):

StaffSignature

Outcomes
NOT MET

(5*4=20)

Part-B (ANSWER ANY FIVE)

21. Write short notes on Virtualization.
22. Compare JAX-RPC Vs JAX-REST.
23. What are two types of Hypervisor's? Define them.
24. What is Dedicated Server? Where it's used?
25. Enlist any two merits and demerits of Software as Service.
26. What is Client-Server Technology? How it's related to cloud computing?
27. Give examples of Cloud Apps. (Minimum 3)

Part-C

(12*5=60)

28. a. Describe in detail about Desktop Virtualization and its feature's.

(Or)

- b. What is Storage virtualization? Justify giving necessary points.

29. a. Explain in detail about Open SaaS Solution with neat diagram.

(Or)

- b. Explain about SRM-IT Private Infrastructure Cloud. Write in detail how redundancy database implemented and server configuration details with neat diagram.

- 30.a. Briefly explain about Network-Attached Storage with necessary diagram.

(Or)

- b. Compare and contrast several server types under IaaS.

31. a. Explain about Web Apps under Cloud Applications using diagram.

(Or)

- b. What is MVC Architecture? Explain the design pattern of MVC. (12)

32. a. Explain in detail about Server Side Programming giving suitable examples. (12 marks)

(Or)

- b. What is Distributed App? Explain its purpose in Cloud Application Development. (12 Marks)

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SET- A

MAX MARKS-100
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PART - A (20x1=20)

1. Which of the following type of virtualization is also characteristic of cloud computing ?
a) Storage b) Application c) CPU d) All of the mentioned
2. Point out the wrong statement :
a) Abstraction enables the key benefit of cloud computing: shared, ubiquitous access
b) Virtualization assigns a logical name for a physical resource and then provides a pointer to that physical resource when a request is made
c) All cloud computing applications combine their resources into pools that can be assigned on demand to users
d) All of the mentioned
3. Which of the following type of virtualization is found in hypervisor such as Microsoft's Hyper-V ?
a) paravirtualization b) full virtualization
c) emulation d) None of the mentioned
4. _____ is a service that creates and manages virtual network interfaces.
a) VMware vStorage b) VMware vNetwork
c) VMware vCompute d) Application services
5. In _____, the virtual machine simulates hardware, so it can be independent of the underlying system hardware.
a) paravirtualization b) full virtualization
c) emulation d) None of the mentioned
6. Which of the following is most complete cloud computing service model ?
a) PaaS b) IaaS c) SaaS d) SaaS
7. SaaS supports multiple users and provides a shared data model through _____ model.
a) single-tenancy b) multi-tenancy
c) multiple-instance d) All of the mentioned
8. Open source software used in a SaaS is called _____ SaaS.
a) closed b) free c) open d) All of the mentioned
9. _____ offering provides the tools and development environment to deploy applications on another vendor's application.
a) PaaS b) IaaS c) SaaS d) All of the mentioned
10. Amazon Web Services offers a classic Service Oriented Architecture (SOA) approach to :
a) IaaS b) SaaS c) PaaS d) All of the mentioned
11. _____ as a Service is a cloud computing infrastructure that creates a development environment upon which applications may be build.
a) Infrastructure b) Service c) Platform d) All of the mentioned
12. Which of the following is fundamental unit of virtualized client in an IaaS deployment ?
a) workunit b) workspace c) workload d) All of the mentioned
13. Which of the following is a specification for multicast discovery on a LAN ?
a) WS-Agent b) WS-Discovery c) WS-SOAP d) All of the mentioned
14. _____ data represents more than 50 percent of the data created every day.
a) Shadow b) Light c) Dark d) All of the mentioned

15. How many categories of storage devices broadly exist in cloud ?
a) 1 b) 2 c) 3 d) 4
16. Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand ?
a) SOA b) EBS c) GEC d) All of the mentioned
17. Which of the following feature is highly emphasized in open system for mobile application ?
a) scalability b) integrity c) interoperability d) None of the mentioned
18. Which of the following factor needs to be addressed while working with mobile applications in cloud ?
a) Different methods of navigation through the interface
b) Slow transmission over the connection
c) Variable screen sizes and resolutions
d) All of the mentioned
19. Which of the following feature make cloud-based storage systems highly reliable ?
a) Redundant networks b) Redundant name servers
c) Replication d) All of the mentioned
20. Which of the following is a form of message push service ?
a) FMS b) SMS c) RMS d) All of the mentioned