

**April 2019**

Time – Three hours  
(Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.  
Answer any FOUR questions from the remaining in each PART – A and PART – B  
(2) Answer division (a) or division (b) of each question in PART – C.  
(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C. ]

PART – A

1. What are the different components of cloud computing?
2. List out the benefits of cloud computing.
3. Write down the economic benefits of Saas.
4. What do you mean by community cloud?
5. What is meant by virtualization?
6. Define desktop virtualization.
7. What is CSA?
8. What is the difference between NAS and FC SAN?

PART – B

9. Write about the origins of cloud computing.
10. Explain high performance computing.
11. Explain SPI framework.
12. Describe about Google App engine.
13. Write a brief note on virtual box.
14. Explain object storage and its benefits.
15. Explain virtualization security management.
16. What are the benefits of memory virtualization?

[Turn over.....

PART – C

17. (a) Explain the following. (i)Utility and enterprise grid computing  
(ii)Autonomic computing (iii)Horizontal scaling.

(Or)

- (b) Explain the security concerns in cloud computing with its benefits.

18. (a) Explain the services and benefits of Paas.

(Or)

- (b) Explain cloud deployment model.

19. (a) Explain the different types of hardware virtualization.

(Or)

- (b) Explain VMware infrastructure with a neat diagram.

20. (a) Explain hybrid storage networking technologies.

(Or)

- (b) (i) Explain the architecture of cloud storage.  
(ii) Explain storage network design consideration.

21. (a) Explain brokered cloud storage access.

(Or)

- (b) Explain security policy implementation and policy types.

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