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Question Paper Code: 1046040

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV / DEC 2024

Sixth Semester

Computer Science and Engineering

U20CS601/U20IT604 – Cloud Computing

(Regulation 2020)

(Common to Information Technology)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

(10 x 2 = 20 Marks)

1. Define Cloud Computing.
2. Identify the main solutions provided by cloud computing.
3. Write the role and benefit of virtualization in cloud.
4. Differentiate Full virtualization and Para virtualization?
5. Summarize the benefits and drawbacks of “Platform as a Service”.
6. Analyze the three resource provisioning methods in cloud?
7. Summarize the main services that are offered by Mapreduce.
8. How the development technologies currently supported by AWS?
9. List out the security challenges in cloud.
10. Illustrate security management in cloud environment?

PART – B

(5 x 16 = 80 Marks)

11. (a) State the various cloud characteristics and its benefits with neat diagram. (16)

(OR)

- (b) Compare and contrast the cloud deployment models. (16)

12. (a) Outline the various levels of virtualization with an example for each category. (16)

(OR)

- (b) Illustrate the virtualization of CPU, memory and I/O devices. (16)

13. (a) Identify the role of architectural design challenges in cloud with relative example. 16

(OR)

- (b) Analyze the various layered Cloud Architectural Development design for effective cloud computing environment with diagram. (16)

14. (a) Demonstrate the Programming environment of Google App Engine. (16)

(OR)

- (b) Examine the structure of open stack and its components. (16)

15. (a) Identify the purpose of IAM? Explain the functional architecture with an illustration. (16)

(OR)

- (b) Explain about cloud security infrastructure with neat sketch. (16)