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Question Paper Code	12288
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023
Sixth Semester
Information Technology
20ITPC601 - CLOUD COMPUTING AND VIRTUALIZATION
(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|---|-------------------------------|
| 1. Define Cloud Computing. | 2,K1,CO1 |
| 2. Define Grid computing and its types. | 2,K1,CO1 |
| 3. What is the Cloud Computing Stack? | 2,K1,CO2 |
| 4. Define Infrastructure as Service. | 2,K1,CO2 |
| 5. Define Fog Computing. | 2,K1,CO5 |
| 6. Name the Features of Docker. | 2,K1,CO5 |
| 7. Define VM Migration. | 2,K1,CO6 |
| 8. Define Containers. | 2,K1,CO5 |
| 9. Define Utility Computing. | 2,K1,CO3 |
| 10. What is Serverless Computing? | 2,K1,CO4 |

PART - B (5 × 16 = 80 Marks)

Answer Any Five Questions

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|---|-----------|
| 11. Describe in detail about the evolution of cloud computing. | 16,K2,CO1 |
| 12. Explain the Client Server architecture in detail. | 16,K2,CO1 |
| 13. Discuss in detail about the cloud deployment models in detail with appropriate diagrams. | 16,K2,CO2 |
| 14. Discuss the features of software as a Service and explain in detail about SaaS with examples. | 16,K2,CO2 |
| 15. Explain about the cloud architectural design challenges. | 16,K2,CO3 |
| 16. Explain in detail about the Resource management Approaches. | 16,K2,CO4 |
| 17. Explain in detail about Google Cloud Functions. | 16,K2,CO5 |
| 18. Write short notes on Sustainable Cloud Computing. | 16,K2,CO6 |