1804M068

Candidate's Seat No : _____

Integ. M.Sc DS Semester-8 Examination

CC-412

Cloud Computing

Time : 2-30 Hours]

April-2024

[Max. Marks : 70

Instructions: All questions are compulsory. Use of non-programmable scientific calculator is allowed

Q.1 **(a)** Differentiate: IaaS, PaaS, & SaaS
(b) Differentiate: Hypervisor and Docker

OR

(a) Explain: Public, Private and Hybrid Cloud Deployment
(b) Explain with Illustration: Min-Min Algorithm for TASK Scheduling

Q.2 **(a)** What is Containerization? Explain with Real Life Example.
(b) NACL and Security group – their works.

OR

(a) Explain: Merits and Demerits of virtualization
(b) Explain: Fine Grain Offloading and Coarse grain offloading

Q.3 **(a)** Explain: Full and Para Virtualization
(b) What is Computational Offloading? Real Life example.

OR

(a) What is Function as a service? Where it is used? Merits and Demerits.
(b) Edge Computing and Fog Computing – Advantages.

Q.4 **(a)** Advantages of VPC and VPC paring with Real life example.
(b) What is the significance of Auto Scaling? Give Real life example of Auto Scaling

OR

(a) Explain: API Gateway
(b) What is Load Balancing? Give Real life example of Load Balancing.

Q.5 Attempt any **SEVEN** out of **TWELVE:**
(1) Define: Cloud Computing
(2) What is the advantage of Cloud Computing?
(3) What is the full form of REST in Rest-API?
(4) What is VM Placement?
(5) Give example of two VM Placement Group.
(6) What is DBaaS? What is the advantage of DBaaS?
(7) What is Microservices?
(8) What is Service Oriented Architecture?
(9) At what level Security Groups are operating in VPC?
(10) At what level NACL is operating in VPC?
(11) Differentiate: Public Subnet and Private Subnet
(12) What is subnetting and Supernetting.

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