

19U5107

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Name:

Reg. No:

FIFTH SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2021

(Regular/Supplementary/Improvement)

CC18U SDC5 BC21 - BIG DATA & CLOUD PLATFORM FOR IOT

(Information Technology)

(2018 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. How many types of Cloud are there in Deployment Models?
2. _____ provides the runtime environment for applications, development and deployment tools, etc.
3. _____ is a platform or a suite which provides various services to solve the big data problems.
4. Wireless Fidelity is based on the IEEE _____ family of standard.
5. Divide and conquer method is _____ approach for problem-solving.
6. _____ systems use point-to-point communications between machines.
7. _____ stores context information about things and sensors.
8. The AWS service is provided by _____
9. YARN means _____
10. Who was the developer of Hadoop language?

(10 × 1 = 10 Marks)

PART B

Answer any *eight* questions. Each question carries 2 marks.

11. Name three tools to build cloud-based apps.
12. Write about HBase Architecture.
13. Define divide and conquer algorithm.
14. Name any two valuable database search techniques.
15. What is spoofing?
16. What is Server virtualization?
17. Name any four IoT Protocols.
18. What is SaaS and PaaS?
19. Compare between functional and procedural programming.
20. What is function of network layer of IoT?

21. What is Z-wave protocol?
22. What is AMQP in IoT?

(8 × 2 = 16 Marks)

PART C

Answer any *six* questions. Each question carries 4 marks.

23. Write notes on any three BIG DATA TECHNOLOGIES.
24. Write notes about Hadoop, MapReduce, YARN and HDFS
25. Explain the major components of IoT.
26. Write notes on Security, Reliability and Availability Issues with Cloud Computing
27. Write notes on M2M standards.
28. Explain about four Stage IoT architecture with diagram.
29. Write note on Big O Notation.
30. Explain MQTT & CoAP.
31. Write notes & features on Google cloud platform (GCP).

(6 × 4 = 24 Marks)

PART D

Answer any *two* questions. Each question carries 15 marks.

32. a) Write notes in processing data with MapReduce.
b) Explain execution and implementation of MapReduce program.
33. a) What is Cloud Computing? definition, private, public and hybrid cloud?
b) What are benefits and challenges to Cloud architecture?
34. a) Write About Network Protocols for IoT.
b) Explain about IoT communication Protocols.
35. Explain about top five big data technologies and some emerging big data technologies.

(2 × 15 = 30 Marks)
