22U5116 (Pages: 2) Name: .....

Reg.No: .....

FIFTH SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC21U SDC5 BD19 - BIG DATA AND CLOUD PLATFORM FOR IOT

(Information Technology - Skill Component Course)

(2021 Admission onwards)

Time : 2.5 Hours Maximum : 80 Marks

Credit : 4

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. Discuss big data stack.
2. Discuss emerging big data technologies.
3. Discuss programming paradigm.
4. Analyse sorting algorithm. Give an example.
5. Group any two applications of Mahout.
6. Categorize the types of analytics.
7. Inspect intercloud.
8. Integrate WSDL.
9. Examine by interoperability in web services.
10. Demonstrate Cloud elasticity.
11. Demonstrate TCO model.
12. Demonstrate any four tools for IoT platform.
13. Assess IoT Gateway.
14. Prioritize the keys used in ZigBee cryptography.
15. Justify the reasons for cloud in world of IoT.

(Ceiling: 25 Marks)

Part B (Paragraph questions)

Answer ***all*** questions. Each question carries 5 marks.

16. Explain Data Storage in Hbase.
17. Examine the features of R language.

18. Examine Hive Architecture.

19. Organize a note on cloud deployment models.

20. Arrange the benefits of cloud computing.

21. Determine the comparison between M2M and IoT.

22. Validate features the SDN/NFV.

23. Prioritize any four cloud IoT security controls.

(Ceiling: 35 Marks)

Part C (Essay questions)

Answer any ***two*** questions. Each question carries 10 marks.

24. Describe big data processing. Explain the algorithm for data processing using map reduce.

25. Explain about MapReduce.

26. Demonstrate IoT. Determine the design principles of IoT.

27. Demonstrate everything about Everything as a Service.

(2 × 10 = 20 Marks)

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