<b>20U</b> :	<b>(5116</b> (Pages: 2)	Name:	
	FIFTH SEMESTER B.Voc. DEGREE EXAMIN	Reg. No:	
	(Regular/Supplementary/Impr		
CC18U SDC5 BC21 – BIG DATA AND CLOUD PLATFORM FOR IOT			
	(Information Technolog	gy)	
	(2018 Admission onwa		
Time:	Three Hours	Maximum: 80 Marks	
	PART A		
	Answer <i>all</i> questions. Each question	n carries 1 mark	
1.	SOA stands for		
2.	2 is a Network operator that provides packet-switched service.		
3.	3. A big data contains only cleaned, structured and matched data.		
4.	provides the runtime environment	for applications, development and	
	deployment tools, etc.		
5.	5. Two type of nodes in Hbase are -Master and		
6.	The Hadoop language written in		
7.	The allows systems and services organizations.	to be accessible by a group of	
8.		1?	
	a. DDS b. MQTT c. W		
9.	Microsoft Azure is completely based on the conce		
10. Cloud gateway facilitates and secure data transmission between fie			
	gateways and cloud IoT servers.		
		$(10 \times 1 = 10 \text{ Marks})$	
	PART B	( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Answer any <i>eight</i> questions. Each quest	tion carries 2 marks	
11	1. List out and explain emerging big data technologi	es.	
12	2. Explain about the two categories of big data techn	nology.	
13	3. Define divide and conquer Algorithm.		
14	4. What are the tools used for Data Science?		
15	5. Differentiate between RDBMS and HBase.		
16	6. What are the different types of cloud?		
17	7. Write about HBase Architecture.		

18. Write a note on cloud service models.

- 19. Define Local Area Networking.
- 20. Define AMQP in IoT.
- 21. What is IOT device map?
- 22. List the different cloud computing service providers.

 $(8 \times 2 = 16 \text{ Marks})$ 

## PART C

Answer any six questions. Each question carries 4 marks.

- 23. Write note on Big O Notation.
- 24. What are the factors that increases the scale of statistical Analysis?
- 25. Illustrate Hadoop Ecosystem and explain its components.
- 26. Write notes about PIG, MapReduce, YARN and HDFS.
- 27. What are the Characteristics of Cloud Computing?
- 28. Describe how to build an architecture in IoT.
- 29. Explain about Everything as a service (XaaS).
- 30. Explain IOT security threats.
- 31. Define Virtualization. What is the concept behind the Virtualization?

 $(6 \times 4 = 24 \text{ Marks})$ 

## **PART D**

Answer any two questions. Each question carries 15 marks.

- 32. a) Explain in detail of the architecture, data storage and applications of HBase.
  - b) Explain execution and implementation of Hadoop MapReduce.
- 33. Illustrate Hive architecture and explain its features and mechanism for data organization.
- 34. Briefly explain the Cloud Computing Architecture. Explain Advantages and applications of cloud computing.
- 35. Explain about IoT communication Protocols. Write About Network Protocols for IoT.

 $(2 \times 15 = 30 \text{ Marks})$ 

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