Savitribai Phule Shikshan Prasarak Mandal's

SKN SINHGAD COLLEGE OF ENGINEERING
(Approved by AICTE, Recognized by DTE (MS) &
Affiliated to Punyashlok Ahilyadevi Holkar, Solapur University, Solapur)
Accredited 'A+' Grade by NAAC
At Post- Korti, Taluka-Pandharpur, District-Solapur, Pin-413304

Department of Computer Science & Engineering

Subject: Big Data Analytics

| Q. No.	Question	CO	BL	PI
Unit No. 01				
1	Explain types of digital data.	1	L3	1.7.3
2	Explain unstructured data and its different sources.	1	L3	1.5.1
3	Explain Structured data and its different sources.	1	L3	1.7.5
4	Explain Semi structured data.	2	L3	1.4.3
5	Compare BDA and RDBMS.			
Unit No. 02				
1	What is big data ?	2, 3	L1	1.7.3
2	Explain different characteristic of big data.	2, 3	L3	1.5.1
3	Explain different V's of big data.	2, 3	L3	1.7.5
4	What is big data analytics? explain second schools of thought of big data analytics.	2, 3	L3	1.4.3
Unit No. 03				
1	What is big data analytics ? Explain classification of Big Data Analytics	4	L3	1.7.3
2	Write difference between SQL,NOSQL and NewSQL.	4	L1	1.5.1

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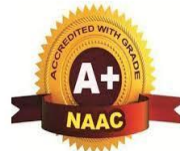
3	Explain massively parallel processing terminologies used in big data.	4	L3	1.7.5
4	Explain various terminology used in big data environments	4	L3	1.7.3
Unit No. 04				
1	Give different HDFS commands	4	L1	1.7.5
2	What are the different key aspects of hadoop	4	L3	1.4.3
3	Give the difference between Hadoop 1.0 and Hadoop 2.0	4	L1	1.7.3
4	Explain Hoodoop 1.0 and Hadoop 2.0.	4	L3	1.5.1
5	Explain high level architecture of Hadoop with its components	4	L3	1.7.5
6	Describe YARN architecture in detail	4	L3	1.4.3
Unit No. 05				
1	Explain different CRUD operations in MongoDB.	4	L3	1.7.3
2	Write difference between MongoDB and SQL	4	L1	1.5.1
3	What is MongoDB ?	4	L2	1.7.5
4	Explain Map reduce programming in MongoDB with example.	4	L3	1.4.2
5	Write MongoDB query for an objective given below.	4	L2	1.4.3
Unit No. 06				
1	Explain CRUD operations in Cassandra with example query.	4	L3	1.7.3
2	Explain features of Cassandra in details.	4	L3	1.5.3

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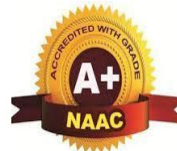
3	What is concept of hinted handoffs,consistency and replication factor in Cassandra.	4	L2	1.7.5
4	With help of example explain set collection, list collection and map collection in Cassendra. when collection should not be used?	4	L3	1.4.3
Unit No. 07				
1	List out features of Hive.	4	L1	1.7.3
2	Draw the architecture of hive and explain its components.	4	L2	1.5.1
3	What is static and dynamic partitioning in HIVE? Illustrate with example.	4	L2	1.7.4
Unit No. 08				
1	What is pig ? Explain its features.	4	L1	1.7.3
2	What is pig philosophy ? Explain ETL processing in Pig.	4	L1	1.5.2
3	Write word count example using PIG.	4	L2	1.7.5

8-Marks

| Q. No.	Questions
13	Discuss different interactive devices- Joystick, Touch panel, Light pen.

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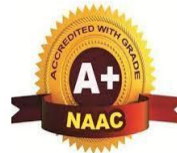
14	Write a short note on Color CRT techniques: Beam Penetration
15	Write a short note on Color CRT techniques Shadow Mask Technique
16	Compare Beam Penetration and Shadow Mask Technique.
17	Consider end points of a line (0,0) to (8,9). Rasterize line by using DDA line drawing algorithm.
18	Consider end points of a line (1,1) to 11,12). Rasterize line by using Bresnham;s line drawing algorithm.
19	What do you mean by 8-way symmetry of circle?
20	Explain Bresenhm's line drawing algorithm with example?
22	Explain criterias applied for line drawing algorithm. Discuss Rasterization and scan conversion.
23	Explain Bresenhm's Circle drawing algorithm with example?

*********************************Best Luck*********************************