Q.20 List difference industries using Big Data. What are the challenges for data processing?

Q.21 Define Big Data and discuss its main characteristics.

Q.22 What are the main functionalities of the NameNode and DataNode in Hadoop?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions.   (2x8=16)

Q.23 Explain Big Data in detail. List applications of Big Data.

Q.24 What is Hadoop. Explain structure of Hadoop in detail.

Q.25 Elaborate the architecture of HIVE with the help of a Diagram.

5th Sem / Computer, Computer (For Speech and Hearing Impaired)

Subject : Big Data

Time : 3 Hrs.   M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (6x1=6)

Q.1   Which of the following is a common source of Big Data?

a)   Social media interactions

b)   Printed newspapers

c)   Handwritten notes

d)   Telephone calls

Q.2   What is Hadoop primarily used for?

a)   Word processing

b)   Big data storage and processing

c)   Image editing

d)   Web browsing

Q.3 In the MapReduce process. what is the first step after the map phase?

a) Input phase   b) Reducing phase

c) Shuffling and sorting d) Output phase

Q.4 What are the two main functions of the MapReduce framework?

a) Map and Analyze   b) Filter and Sort

c) Map and Reduce   d) Load and Store

Q.5 "3Vs" is big data refers to

a) Volume velocity, variety

b) Value, volume, verification

c) Video, volume, value

d) None of the above

Q.6 Which of the following is not a component of Hadoop.

a) Map reduce   b) HDFS

c) Yarn   d) None of the above

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory.   (6x1=6)

Q.7 Give one example of Big Data.

Q.8 Which language is used in Hadoop?

Q.9 What is HIVE?

Q.10 Expand NAS_____

Q.11 ETL stands for_____.

Q.12 Yarn is one of the components of Big Data (T/F)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions.   (8x4=32)

Q.13 Discuss how Hive differs from traditional RDBMS

Q.14 Illustrate the MapReduce process by explaining the steps involved in a word-count example.

Q.15 Describe the architecture of Hadoop and its key components.

Q.16 Explain the benefits of using Big Data in business applications.

Q.17 What is HDFC? Where it is used? Give examples of the same.

Q.18 What is Pig and how does it relate to MapReduce? When should Pig be used?

Q.19 Differentiate between Hive and Pig (minimum four differences).