

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Sixth Semester)

Branch – COMPUTER TECHNOLOGY

DATA ANALYTICS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Data in ____ bytes size is called Big Data.
(i) Peta (ii) Tera
(iii) Giga (iv) meta
- 2 Running a ____ program involves running mapping tasks on many or all of node in our cluster.
(i) Map (ii) Reducer
(iii) Map Reducer (iv) Image program
- 3 Reduce function simply passes key-value pair to ____.
(i) Input (ii) Both input & Output
(iii) Output (iv) null
- 4 Dimensionality reduction is the transformation of data from ____ to dimensional Phase.
(i) medium, high (ii) high, low
(iii) low, medium (iv) medium ,high
- 5 In how many categories of data types has been classified ____?
(i) 2 (ii) 4
(iii) 1 (iv) 3

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Narrate the characteristics of Big data.
OR
b State the importance of big data analytics with an example.
- 7 a Explain grouping key in Map Reduce.
OR
b Examine briefly about Combiners.
- 8 a Analyze vector multiplication by Map Reduce.
OR
b Bring out valuable points on algebra operations in Map Reduce.
- 9 a Give an outline about Root mean square.
OR
b Write some valuable points of optimizing an arbitrary element.
- 10 a Classify No SQL and New SQL Database.
OR
b Explain on Disk storage devices.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Categorize different types of Big data.
OR
b Discuss about the concepts of Big Data mining.
- 12 a Enumerate MapReduce architecture in detail.
OR
b Summarize briefly about Map Reduce Execution.
- 13 a Elucidate computing projections by map reduce.
OR
b Give a survey examine on Grouping and aggregation by Map Reduce.
- 14 a Discover the importance of UV-Decomposition.
OR
b Examine Decomposition algorithm.
- 15 a Trace the importance of in-memory storage devices.
OR
b Point out the importance of distributed file system.

Z-Z-Z

END