SEAT No. :

PC1809

[Total No. of Pages : 2

[6353]-128

T.E. (Information Technology)
DATA SCIENCE AND BIG DATA ANALYTICS
(2019 Pattern) (Semester - II) (314452)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1)   All questions are compulsory.

2)   Figures to the right indicate full marks.

Q1) a)   Explain the working of Google File System with a neat diagram with relevant to Big Data.   **[9]**

   b)   Write Short note on YARN and Map - Reduce technique. Is there any difference between both.   **[8]**

OR

Q2) a)   Explain Hadoop Frame work components with a neat Diagram, which component is used in Big data.   **[9]**

   b)   Write the 4 types of NoSQL databases. How they are used in Big Data. **[8]**

Q3) a)   Explain 4 types of big data analytics along with the analytical purpose in each phase.   **[8]**

   b)   Explain different steps in Data Analytics project life cycle, how it is different than normal project life cycle.   **[9]**

OR

Q4) a)   Explain the tasks in Data integration and Data Transformation phase with suitable example.   **[8]**

   b)   Explain the three ways of Data Normalization used in data analytics. **[9]**

P.T.O.

Q5) a) Explain different Data Visualization Techniques. Why visualization is important in Big Data. **[8]**

b) Explain various types of charts used in data visualization along with its analytical purpose. **[10]**

OR

Q6) a) Explain how data Visualization is beneficial for Business Analytics and Intelligence. **[8]**

b) Explain Features of Tableau DV tool and state phases of Tableau workflow. **[10]**

Q7) a) What is Social Media Data Analytics and state the advantages of SMA. **[9]**

b) Explain roles and responsibilities of big data analysts and data scientists. **[9]**

OR

Q8) a) What is Mobile analytics? Explain its importance with suitable example. **[9]**

b) Explain the data analysis life cycle in big data. **[9]**

ⓘ ⓘ ⓘ ⓘ