ND—28—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/Reviseed Pattern)

COMPUTER SCIENCE

(Data Science)

(Thursday, 7-12-2023)   **Time : 10.00 a.m. to 1.00 p.m.**

Time—3 Hours   *Maximum Marks—75*

N.B. :— (i)   *All* questions are compulsory.

     (ii)   Figures to the right indicate full marks.

1.   Attempt any *five* of the following :   15

  (a)   What is Data Science and its various applications ?

  (b)   What is Datamining and its classification ?

  (c)   What is Database and its explain ?

  (d)   Write difference between Datamining and Data Science.

  (e)   Explain use of statistics method and technique.

  (f)   Explain Data Analysis.

  (g)   Explain experimentation.

                                         P.T.O.

2. Attempt any *three* of the following : 15

   (*a*) Explain AI and ANN basic.

   (*b*) Explain non-scalable and scalable data.

   (*c*) Explain Artificial intelligence.

   (*d*) Explain importance of Data Science in future.

   (*e*) Explain managing Big data and different techniques.

3. Attempt any *three* of the following : 15

   (*a*) Explain regression.

   (*b*) Explain essential of algorithms and data structure.

   (*c*) Explain evaluation.

   (*d*) Explain optimization for data science.

   (*e*) Explain Big data fundamental.

4. Attempt any *three* of the following : 15

   (*a*) Explain project deployment tools.

   (*b*) Explain data acquisition.

   (*c*) Explain research methodology basics and its importance.

   (*d*) Explain software engineering trends and techniques.

   (*e*) Explain data science life cycle.

5. Write short notes on any *three* of the following : 15

    (*a*)   Data visualization

    (*b*)   Machine learning big data

    (*c*)   Parallel computing and algorithms

    (*d*)   Hadoop integration with R

    (*e*)   Data warehousing.