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Total No. of Questions : 09

B.Tech. (CSE)/B.Tech. (CSE) (PIT)   (Sem.–6)

DATA SCIENCE

Subject Code : BTCS-616-18 M.Code : 79256

Date of Examination : 14-07-22

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1.   SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2.   SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3.   SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1.   Write briefly :

a)   What is data science and its benefits?

b)   What is Logistic Regression?

c)   What is Pivot Table?

d)   Explain role and stages in data science.

e)   What are the goals of data science?

f)   Explain supervised and unsupervised machine Learning.

g)   Why we need the Machine Learning in data science?

h)   What is cluster Analysis?

i)   What is categorical data type?

j)   What is ANOVA?

SECTION-B

2.   Explain about roles and stages in data science project.

3.   Explain about multiple plots in one window.

4.   Explain various processes of Data Cleaning.

5.   Explain the use of logistic function in logistic regression in detail.

6.   Explain all the steps to implement ANOVA.

SECTION-C

7.   Discuss various evaluation metrics to say whether a developed data model is good or not

8.   Discuss Applications of data science in various fields.

9.   Discuss following methods of exploratory data analysis:

   a)   Box Plots

   b)   Heat Maps

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.