[6010]-153

B.E. (Computer Engineering) (Insem)
HONOURS IN DATA SCIENCE
Artificial Intelligence for Big Data Analytics
(2019 Pattern)(Semester - VIII) (410503)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

1) *Solve Q.1 or Q.2, Q.3 or Q.4.*

2) *Assume suitable data if necessary.*

Q1) a) Explain the need and applications of AI with some examples. **[5]**

b) Define Heuristic function. Explain its significance in the informed search with suitable example. **[5]**

c) What are the advantages of local search algorithm in artificial intelligence? **[5]**

OR

Q2) a) Explain the A* algorithm to solve a problem. **[5]**

b) Explain Constraint Satisfaction Problem with Example. **[5]**

c) Explain hill climbing algorithm. Explain plateau, ridge, local maxima and global maxima. **[5]**

Q3) a) What is data dimensionality and its importance in big data? **[5]**

b) Explain types of Machine Learning with suitable examples. **[5]**

c) What is meant by content-based recommendation in big data analytics? **[5]**

OR

Q4) a) What is Big Data? Explain various types of big data. **[5]**

b) Explain the use of Spark MLlib in big data. **[5]**

c) What are the regression analysis techniques in Data analytics? **[5]**

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