

Hall Ticket Number :

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**R-14**

**Code: 4G171**

IV B.Tech. I Semester Supplementary Examinations August 2020

**Data Warehousing and Mining**

( Common to CSE & IT )

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )

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**UNIT-I**

1. a) Define Data Mining? Explain various Data Mining functionalities. 7M
- b) What are the alternative names for Data mining? How do you classify Data Mining Systems? 7M

**OR**

2. Explain the various methods for concept hierarchy generation for numerical data? Generate a concept hierarchy using 3-4-5 rule with an example. 14M

**UNIT-II**

3. a) Illustrate the concept of OLAP in Data Warehousing. 7M
- b) Compare the basic difference between data OLAP and OLTP. 7M

**OR**

4. a) What are the steps in Association Rule mining? Explain with examples. 7M
- b) Explain the various techniques to improve the efficiency of Apriori based mining. 7M

**UNIT-III**

5. a) Simplify the general approach for solving a classification problem. 7M
- b) Explain rule based classification techniques used in data mining 7M

**OR**

6. a) Write and explain Decision Tree Induction algorithm for classification. 7M
- b) Explain various Genetic operators used in classification process with example 7M

**UNIT-IV**

7. Explain the following Grid based clustering methods. 14M
  - a) STING
  - b) CLIQUE

**OR**

8. Explain different distance metrics used in clustering data points with ordinal, nominal, Boolean and mixed value attributes? List the measures used to evaluate the quality of clusters? 14M

**UNIT-V**

9. a) Illustrate the process of Automatic classification of web documents. 7M
- b) Outline about Information retrieval system in text mining. 7M

**OR**

10. a) Explain about sequential pattern mining. 7M
- b) Describe about Similarity search in time series analysis. 7M

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**R-14**

**Code: 4G174**

IV B.Tech. I Semester Supplementary Examinations August 2020

**High Performance Computing**  
( Computer Science and Engineering )

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )

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**UNIT-I**

- 1. Identify the Operating System concepts relevant to distributed computing?  
**OR**
- 2. a) Define HPC? List its advantages.  
b) Explain security issues in Distributed Computing?

**UNIT-II**

- 3. a) Define HPDC? Why we need it?  
b) Explain the importance of different Attributes of clusters.  
**OR**
- 4. Briefly explain differences between Grid Computing and Cloud Computing?

**UNIT-III**

- 5. Explain Grid Services architecture in detail?  
**OR**
- 6. a) What is the need of web services? Explain.  
b) Distinguish between SOAP and REST with suitable diagram?

**UNIT-IV**

- 7. a) Outline the goals of OGSA?  
b) Explain about any one sample use case?  
**OR**
- 8. Explain Open Grid Service Infrastructure in detail?

**UNIT-V**

- 9. Explain the Globus GT3 toolkit architecture in detail?  
**OR**
- 10. a) List out Advantages and disadvantages of GLOBUS GT3?  
b) Explain about Grid Services Container in GLOBUS GT3?

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