

Code No: R05321204

R05**Set No. 2**

III B.Tech II Semester Examinations, December 2010
DATA WAREHOUSING AND DATA MINING
Information Technology

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What are some enhancements to basic decision tree induction? Explain.
 (b) How does a Bayesian belief network learn? Explain.
 (c) What are two strategies to increase classifier accuracy? Explain. [5+5+6]
2. (a) List and describe any four primitives for specifying a data mining task.
 (b) Describe why concept hierarchies are useful in data mining. [8+8]
3. (a) Briefly explain about data cleaning.
 (b) Why preprocessing of data is needed? Explain. [8+8]
4. (a) Draw and explain the architecture of typical data mining system.
 (b) Differentiate OLTP and OLAP. [8+8]
5. A heterogeneous database system consists of multiple database systems that are defined independently, but that need to exchange transform information among themselves and answer global queries. Discuss how to process a descriptive mining query in such a system using a generalization-based approach. [16]
6. (a) Given the following measurement for the variable age:
 16, 25, 28, 46, 29, 44, 38, 37, 54, 27
 Standardize the variable by the following:
 - i. Compute the mean absolute deviation of age.
 - ii. Compute the Z-score for the first four measurements.
- (b) Explain clustering using representatives algorithm with example.
- (c) Write an algorithm for DBSCAN and give an example of DBSCAN. [8+4+4]
7. (a) Discuss about Association rule mining.
 (b) Define multidimensional Association rule. Discuss mining distance-based Association rules. [8+8]
8. (a) What is Concept description? Explain.
 (b) What are the differences between concept description in large data bases and OLAP? [8+8]

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R05**Set No. 4**

III B.Tech II Semester Examinations, December 2010
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Information Technology

Time: 3 hours**Max Marks: 80**

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1. (a) Given the following measurement for the variable age:
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Standardize the variable by the following:
 - i. Compute the mean absolute deviation of age.
 - ii. Compute the Z-score for the first four measurements.
- (b) Explain clustering using representatives algorithm with example.
- (c) Write an algorithm for DBSCAN and give an example of DBSCAN. [8+4+4]
2. (a) What is Concept description? Explain.
- (b) What are the differences between concept description in large data bases and OLAP? [8+8]
3. (a) Draw and explain the architecture of typical data mining system.
- (b) Differentiate OLTP and OLAP. [8+8]
4. (a) Briefly explain about data cleaning.
- (b) Why preprocessing of data is needed? Explain. [8+8]
5. (a) What are some enhancements to basic decision tree induction? Explain.
- (b) How does a Bayesian belief network learn? Explain.
- (c) What are two strategies to increase classifier accuracy? Explain. [5+5+6]
6. (a) Discuss about Association rule mining.
- (b) Define multidimensional Association rule. Discuss mining distance-based Association rules. [8+8]
7. A heterogeneous database system consists of multiple database systems that are defined independently, but that need to exchange transform information among themselves and answer global queries. Discuss how to process a descriptive mining query in such a system using a generalization-based approach. [16]
8. (a) List and describe any four primitives for specifying a data mining task.
- (b) Describe why concept hierarchies are useful in data mining. [8+8]

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R05**Set No. 1**

III B.Tech II Semester Examinations, December 2010
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Information Technology

Time: 3 hours**Max Marks: 80**

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1. (a) Briefly explain about data cleaning.
 (b) Why preprocessing of data is needed? Explain. [8+8]
2. (a) Draw and explain the architecture of typical data mining system.
 (b) Differentiate OLTP and OLAP. [8+8]
3. (a) List and describe any four primitives for specifying a data mining task.
 (b) Describe why concept hierarchies are useful in data mining. [8+8]
4. (a) Discuss about Association rule mining.
 (b) Define multidimensional Association rule. Discuss mining distance-based Association rules. [8+8]
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8. (a) Given the following measurement for the variable age:
 16, 25, 28, 46, 29, 44, 38, 37, 54, 27
 Standardize the variable by the following:
 - i. Compute the mean absolute deviation of age.
 - ii. Compute the Z-score for the first four measurements.
 (b) Explain clustering using representatives algorithm with example.
 (c) Write an algorithm for DBSCAN and give an example of DBSCAN. [8+4+4]

Code No: R05321204

R05**Set No. 3**

III B.Tech II Semester Examinations, December 2010
DATA WAREHOUSING AND DATA MINING
Information Technology

Time: 3 hours**Max Marks: 80**

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1. (a) What are some enhancements to basic decision tree induction? Explain.
 (b) How does a Bayesian belief network learn? Explain.
 (c) What are two strategies to increase classifier accuracy? Explain. [5+5+6]
2. A heterogeneous database system consists of multiple database systems that are defined independently, but that need to exchange transform information among themselves and answer global queries. Discuss how to process a descriptive mining query in such a system using a generalization-based approach. [16]
3. (a) What is Concept description? Explain.
 (b) What are the differences between concept description in large data bases and OLAP? [8+8]
4. (a) List and describe any four primitives for specifying a data mining task.
 (b) Describe why concept hierarchies are useful in data mining. [8+8]
5. (a) Given the following measurement for the variable age:
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 Standardize the variable by the following:
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 (b) Explain clustering using representatives algorithm with example.
 (c) Write an algorithm for DBSCAN and give an example of DBSCAN. [8+4+4]
6. (a) Briefly explain about data cleaning.
 (b) Why preprocessing of data is needed? Explain. [8+8]
7. (a) Discuss about Association rule mining.
 (b) Define multidimensional Association rule. Discuss mining distance-based Association rules. [8+8]
8. (a) Draw and explain the architecture of typical data mining system.
 (b) Differentiate OLTP and OLAP. [8+8]
