

Code No: R05410503

R05**Set No. 2**

IV B.Tech I Semester Examinations, November 2010
DATA WAREHOUSING AND DATA MINING
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Briefly discuss the data smoothing techniques.
 (b) Explain about concept hierarchy generation for categorical data. [8+8]
2. (a) What is Cluster Analysis? What are some typical applications of clustering? What are some typical requirements of clustering in data mining?
 (b) Discuss about model-based clustering methods. [2+2+5+7]
3. (a) Briefly discuss the four major types of concept hierarchies.
 (b) Briefly discuss about the objective measures of pattern interestingness. [8+8]
4. An object cube can be constructed by generalization of an object-oriented database into relatively structured data prior to performing multidimensional generalization. Discuss how to handle set-oriented data in an object cube. [16]
5. (a) Compare the advantages and disadvantages of eager classification(e.g., decision tree, Bayesian, neural network) versus lazy classification(e.g., k-nearest neighbor, case-based reasoning).
 (b) Can any ideas from association rule mining be applied to classification? Explain. [8+8]
6. (a) Describe the challenges to data mining regarding performance issue.
 (b) What are the differences between the three main types of data warehouse usage: Information processing, Analytical processing, and data mining? Discuss the motivation behind OLAP mining. [8+8]
7. (a) Attribute-oriented induction generates one or a set of generalized descriptions. How can these descriptions be visualized?
 (b) Discuss about the methods of attribute relevance analysis? [8+8]
8. (a) Write the FP-growth algorithm. Explain.
 (b) Discuss about ARCS. [10+6]

Code No: R05410503

R05**Set No. 4**

IV B.Tech I Semester Examinations, November 2010
DATA WAREHOUSING AND DATA MINING
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Write the FP-growth algorithm. Explain.
 (b) Discuss about ARCS. [10+6]
2. An object cube can be constructed by generalization of an object-oriented database into relatively structured data prior to performing multidimensional generalization. Discuss how to handle set-oriented data in an object cube. [16]
3. (a) Briefly discuss the data smoothing techniques.
 (b) Explain about concept hierarchy generation for categorical data. [8+8]
4. (a) Describe the challenges to data mining regarding performance issue.
 (b) What are the differences between the three main types of data warehouse usage: Information processing, Analytical processing, and data mining? Discuss the motivation behind OLAP mining. [8+8]
5. (a) Attribute-oriented induction generates one or a set of generalized descriptions. How can these descriptions be visualized?
 (b) Discuss about the methods of attribute relevance analysis? [8+8]
6. (a) Compare the advantages and disadvantages of eager classification(e.g., decision tree, Bayesian, neural network) versus lazy classification(e.g., k-nearest neighbor, case-based reasoning).
 (b) Can any ideas from association rule mining be applied to classification? Explain. [8+8]
7. (a) Briefly discuss the four major types of concept hierarchies.
 (b) Briefly discuss about the objective measures of pattern interestingness. [8+8]
8. (a) What is Cluster Analysis? What are some typical applications of clustering? What are some typical requirements of clustering in data mining?
 (b) Discuss about model-based clustering methods. [2+2+5+7]

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R05**Set No. 1**

IV B.Tech I Semester Examinations, November 2010
DATA WAREHOUSING AND DATA MINING
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Write the FP-growth algorithm. Explain.
 (b) Discuss about ARCS. [10+6]
2. (a) What is Cluster Analysis? What are some typical applications of clustering?
 What are some typical requirements of clustering in data mining?
 (b) Discuss about model-based clustering methods. [2+2+5+7]
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7. (a) Attribute-oriented induction generates one or a set of generalized descriptions. How can these descriptions be visualized?
 (b) Discuss about the methods of attribute relevance analysis? [8+8]
8. (a) Describe the challenges to data mining regarding performance issue.
 (b) What are the differences between the three main types of data warehouse usage: Information processing, Analytical processing, and data mining? Discuss the motivation behind OLAP mining. [8+8]

Code No: R05410503

R05**Set No. 3**

IV B.Tech I Semester Examinations, November 2010
DATA WAREHOUSING AND DATA MINING
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. An object cube can be constructed by generalization of an object-oriented database into relatively structured data prior to performing multidimensional generalization. Discuss how to handle set-oriented data in an object cube. [16]
2. (a) Write the FP-growth algorithm. Explain.
 (b) Discuss about ARCS. [10+6]
3. (a) What is Cluster Analysis? What are some typical applications of clustering? What are some typical requirements of clustering in data mining?
 (b) Discuss about model-based clustering methods. [2+2+5+7]
4. (a) Describe the challenges to data mining regarding performance issue.
 (b) What are the differences between the three main types of data warehouse usage: Information processing, Analytical processing, and data mining? Discuss the motivation behind OLAP mining. [8+8]
5. (a) Compare the advantages and disadvantages of eager classification(e.g., decision tree, Bayesian, neural network) versus lazy classification(e.g., k-nearest neighbor, case-based reasoning).
 (b) Can any ideas from association rule mining be applied to classification? Explain. [8+8]
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 (b) Briefly discuss about the objective measures of pattern interestingness. [8+8]
8. (a) Attribute-oriented induction generates one or a set of generalized descriptions. How can these descriptions be visualized?
 (b) Discuss about the methods of attribute relevance analysis? [8+8]
