

IS 466 (Decision Support Systems) Quiz # 1 Version 1
Fall 2022 – Abdulrahman Mirza Student Name: _____

1. A decision support system is needed to solve which type of problems?
 A) Structured
 B) Semi-structured
 C) Unstructured
 D) Both Semi-structured and unstructured
2. In the decision making process defined by Quain (2018), which of the following should be the first step to make:
 A) Collect the information
 B) Select the best alternative
 C) Understand the decision you have to make
 D) Evaluate the impact of your decision
3. Which of the following is the oldest tools/concepts used as decision support systems:
 A) Business Intelligence
 B) Analytics
 C) Expert Systems
 D) Executive Information Systems
4. Which of the following is an activity that typically requires managerial control?
 A) Monitoring accounts receivables
 B) Scheduling production
 C) scheduling project
 D) Building a new plant
5. OLAP is a type of processing that is typically used with which of the following?
 A) Data Warehouse
 B) Expert Systems
 C) ERP
 D) MIS

IS 466 (Decision Support Systems) Quiz # 2 Version 2 Student ID: _____
Fall 2022 – Abdulrahman Mirza Student Name: _____

1. What type of analytics answers questions like "what will happen?"
 A) business intelligence
 B) descriptive
 C) predictive
 D) prescriptive
2. Knowing what is happening in the organization and understanding some underlying trends and causes of such occurrences is achieved by:
 A) business intelligence
 B) descriptive analytics
 C) predictive analytics
 D) prescriptive analytics
3. Which of the following is NOT a main science or tool used in Analytics
 A) Cognitive computing → A
 B) Data warehouse
 C) Statistics
 D) Management science
4. Which of the following is NOT one of the known AI applications:
 A) Autonomous vehicles✓
 B) Recommender systems✓
 C) Sensors✓
 D) Fraud detection ↗
5. Alexa and Siri are examples of what type of AI?
 A) All options are true ✓
 B) Knowledge-based systems✓
 C) Personalized services✓
 D) Voice recognition ✗
6. Cybercrime fighting is considered under what flavor of AI?
 A) None of the options is true
 B) Assisted AI
 C) Autonomous AI
 D) Augmented Intelligence
7. Machines that will have decision-making power are under what flavor of AI?
 A) None of the options is true
 B) Assisted AI
 C) Autonomous AI
 D) Augmented Intelligence
8. Enterprises have voiced that 70-80% of analytics initiatives will not meet their objectives, and hence, the best solution is to combine both analytics and AI in order to improve decision-making and get better results.
 A) True
 B) False

IS 466 (Decision Support Systems) Quiz # 3 V. 2 Student ID: _____

Fall 2022 – Abdulrahman Mirza

Student Name: _____

1. Which of the following is not a technology or application of AI?
 A) Speech understanding.
 B) Smart homes.
 C) Statistics.
 D) Machine learning.
2. Which of the following strives to have computers produce ordinary spoken language so that people can understand the computers more easily?
 A) Natural language processing.
 B) Intelligent agents.
 C) Natural language generation.
 D) Natural language understanding.
3. For many intelligent systems to work, it is necessary for them to have knowledge. The process of acquiring this knowledge is referred to as:
 A) Natural intelligence processing.
 B) Knowledge acquisition.
 C) Deep learning.
 D) Knowledge representation.
4. Robots can help with online shopping by collecting shopping information, matching buyers and products, and conducting price and capability comparisons. These are known as:
 A) EC droids.
 B) CRM.
 C) Shopbots
 D) Turing AI toys.
5. Which of the following uses neural networks as part of its intelligence processing:
 A) Expert systems.
 B) Knowledge systems.
 C) Machine learning.
 D) Deep learning.

IS 466 (Decision Support Systems) Quiz # 4 V. 2 Student ID:
Oct. 4, 2022
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Student Name: _____

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1. How did the main champion of the analytics system in the Miami-Dade County Police Department convince detectives to accept the idea of using an analytics system for fighting crime?
 - A) Showed everyone a YouTube video on the importance of Analytics.
 - B) Explain to them how the system works.
 - C) Use the system to solve an open unsolved case.
 - D) Had the young new more IT savvy detectives convince the older detectives.
2. which of the following can data mining be used with:
 - A) Unstructured data.
 - B) Data warehouses.
 - C) Databases.
 - D) All options are true.
3. Which broad area of data mining applications divides a collection of objects into natural groupings with similar features?
 - A) Clustering.
 - B) Associations.
 - C) Visualization.
 - D) Classification.
4. Supervised learning is used mainly with which data mining tasks:
 - A) Segmentation.
 - B) Association.
 - C) Prediction.
 - E) All options are true.
5. In data mining, finding a relationship between two products to be commonly together in a shopping cart is known as:
 - A) Artificial neural networks.
 - B) Association rule mining.
 - C) Cluster analysis.
 - D) Decision trees.

IS 466 (Decision Support Systems) Quiz # 5 V. 1 Student ID: 439102545
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Fall 2022 – Abdulrahman Mirza

Student Name: _____

1. How can data mining help in reducing death related to cancer?
 - A) By allowing doctors to ask questions about the patients.
 - B) By learning about previous effective treatments under different circumstances.
 - C) By allowing easy tracking of the patient history that is being treated.
 - D) All options are true.
2. which of the following algorithms is the most used for segmentation:
 - A) Decision trees.
 - B) Apriori.
 - C) K-means.
 - D) K-fold cross-validation.
3. Which of the following is an approach to determine which data mining estimation methodology produced more accurate prediction?
 - A) Single split.
 - B) K-fold cross-validation.
 - C) Confusion matrix
 - D) All options are true.
4. If k=5 in a K-fold cross-validation methodology, what percent of the data is used as training data:
 - A) 10%.
 - B) 80%.
 - C) 20%.
 - D) 5%.
5. Which of the following is an example of nominal data:
 - A) White, green, blue.
 - B) High, middle, low.
 - C) First, second, third.
 - D) All options are true.

IS 466 (Decision Support Systems) Quiz # 6 V. 2 Student ID: 439102545
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Student Name: _____

1. Which of the following decrease the size and complexity of problems for other data mining methods
 - A) Association mining.
 - B) Apriori algorithm.
 - C) Classification.
 - D) Cluster analysis.
2. When using the K-means clustering algorithm, what is the expected value of K?
 - A) Always 4.
 - B) Always 5.
 - C) Depends on number of clusters we would like to create.
 - D) Depends on the number of attributes that are used as inputs.
3. What are the typical outputs of running an Apriori algorithm?
 - A) Number of repetition of two or more items in transactions records.
 - B) Number of clusters in the data.
 - C) Raw transaction data.
 - D) All options are true.
4. How is text mining different from data mining?
 - A) Text mining is a semi-automated process.
 - B) Text mining works with unstructured data.
 - C) Text mining searches for patterns.
 - D) All options are true.
5. What is the purpose of stemming?
 - A) Determining the number of repeated words.
 - B) Determining the root of words.
 - C) Creating a decision tree structure.
 - D) Removing words like "a", "an", "to", etc.

IS 466 (Decision Support Systems) Quiz # 7 V. 1 Student ID: _____

Nov. 3, 2022

Fall 2022 – Abdulrahman Mirza

Student Name: _____

1. Sentiment analysis is most useful for which of the following types of applications:
 - A) ERP.
 - B) Shopping carts.
 - C) CRM.
 - D) Expert systems.
2. Which of the following is a step in the sentiment analysis process?
 - A) Determining who or what is the target of the sentiment.
 - B) Determine the objectivity of the word or statement being analyzed.
 - C) Determine the sentiment of the entire analyzed document.
 - D) All options are true.
3. What does Web content mining involve?
 - A) analyzing the universal resource locators (URLs) in Web pages.
 - B) analyzing the unstructured content of Web pages.
 - C) analyzing the pattern of visits to a Web site.
 - D) analyzing the metadata of a Web page.
4. What does Web structure mining involve?
 - A) analyzing the universal resource locators (URLs) in Web pages.
 - B) analyzing the unstructured content of Web pages.
 - C) analyzing the pattern of visits to a Web site.
 - D) analyzing the metadata of a Web page.
5. After knowledge is extracted using the Web usage mining clickstream analysis, what is the potential added value?
 - A) Improving the data.
 - B) Improving the website design.
 - C) Increasing customer value.
 - D) All options are true.