Important Instructions:
- ONLY put a circle on the letter of your answer choice.
- If you change your answer, make sure you put a CLEAR X on your first choice.

1. Why is there a big need for decision support systems:
   A) All following options are true
   B) Decisions with big impact and potential high risks
   C) Sudden unanticipated issues
   D) Issues that require collaboration across different departments

2. Which of the following is a step among the decision making process:
   A) All following options are true
   B) Understand the exact problem you are dealing with
   C) Preview previous records and related files
   D) Analyze the potential negatives and positives of you potential decision

3. An example of a factor that may result in the need for the company's upper management to make an important strategic decision:
   A) All following options are true
   B) Company's CEO has decided to leave to work for another company
   C) Sales have been declining on a monthly basis for the last 6 months.
   D) Company's main competitor has released a new line of trendy products

4. An example of a global factor that may impact a company's production cost:
   A) All following options are true
   B) The decrease in the number of local male customers
   C) The rise of unemployment rate in a neighboring country.
   D) The increase in overseas shipping costs

5. Which of the following is a type of decision that can be easily and fully dealt with using typical information systems:
   A) All following options are true
   B) Unstructured decisions
   C) Semi-structured decisions
   D) Structured decisions

1. Which of the following is NOT a key characteristic of capability of a DSS:
   - A) Enables easy data access.
   - B) May be developed as a web-based tool.
   - C) Enables daily functional transaction processing.
   - D) Enables dealing with unstructured problems.

2. Which of the following is NOT a component of a DSS:
   - A) Database management system.
   - B) User interface.
   - C) Knowledge-based subsystems.
   - D) Enterprise Resource Planning system.

3. Which is NOT a component of a model management subsystem:
   - A) External models subsystem.
   - B) Model execution, integration, and command processor.
   - C) Model directory.
   - D) Model base management system.

4. Which of the following is a problem that ERP systems *solved*:
   - A) All of the following options are true.
   - B) Inability to run queries on the database.
   - C) Inability to create daily reports.
   - D) Inability to access data from different departments.

5. Which of the following describes advantages of software as a service (SAAS):
   - A) All of the following options are true.
   - B) Relieves a company from the need to own a software.
   - C) Is very suitable for small and medium enterprises (SMEs).
   - D) IS accessed through the cloud.

1. Which of the following is one of the major AI technologies.
   A) Cloud computing
   B) Machine learning
   C) Parallel processing
   D) ERP

2. Which of the following is NOT a major goal of AI?
   A) Be able to speak and respond to humans
   B) Be able to think like humans
   C) Be able to retrieve data from database quickly
   D) Improve processing capabilities over time.

3. Which of the following is NOT one of the known AI applications:
   A) Recommender systems
   B) Sensors
   C) Language translation
   D) Autonomous vehicles

4. Alexa and Siri are examples of what type of AI?
   A) Knowledge-based systems
   B) Personalized services
   C) Voice recognition
   D) All options are true

5. Which of the following is NOT a biometric related AI technology:
   A) Voice recognition.
   B) Industrial (manufacturing) robotics.
   C) Natural language processing.
   D) Face recognition.

Question 1   2 out of 2 points

Which of the following is NOT a major AI technology

Answers: All options given are considered major AI technologies

Machine and Computer Vision

Video Analytics

Robotic systems

Question 2   2 out of 2 points

Which of the following AI technology is MOST likely to use a camera?

Answers: Expert Systems

None of the options

Natural language processing

Robotics

Question 3   0 out of 2 points

Which of the following AI technologies is likely to enable communication with people in their native language?

Answers: Natural language processing

All options are true

Chatbots

Robotics

Question 4   0 out of 2 points

The e-commerce "Hive" (one of the examples viewed through YouTube in the classroom) is MOST closely associated with which AI technology?

Answers: Robotics

Deep learning

Machine learning

Knowledge based systems

with which AI technology?

Answers: Robotics

Deep learning

Machine learning

Knowledge based systems

Question 5   2 out of 2 points

In knowledge-based systems, the process of getting this knowledge is referred to as:

Answers: Knwledge acquisition

Knowledge organization and representation

Knowledge refining

Natural language understanding

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← OK

1. Supervised learning is used mainly with which data mining tasks:
   A) Association.
   B) Prediction.
   C) Clustering.
   D) Segmentation.

2. In data mining, finding a relationship between two or more persons on a social media platform, or two or more websites would be done through:
   A) Market-basket analysis.
   B) Link analysis.
   C) Sequence analysis.
   D) Segmentation.

3. Which of the following is the **first** step of the CRISP-DM process?
   A) Data understanding
   B) Data preparation
   C) Business understanding
   D) Model Building

4. In the simple split test estimation methodology, what percent of the data should be used for training the model:
   A) 1/2.
   B) 1/3.
   C) 1/4.
   D) 2/3.

E) If k=5 in a K-fold cross-validation methodology, what percent of the data is used as testing data in each run:
   A) 10%.
   B) 80%.
   C) 20%.
   D) 5%.