IS 466 (Decision Support Systems) Midterm 1 Student ID: Monday Feb. 12, 2024 Spring 2023-2024 Prof. Abdulrahman Mirza Name (Arabic). Important Instructions: - Place a circle ONLY on the letter (i.e., A, B, C, or D) of your answer choice. - If you change your answer, make sure you put a clear X on your first choice. 1. What makes DSS an important requirement for companies? (A) Greater competition between companies in a fast-paced business world. B) Greater expansion of cloud services for both storage and software as a service. C) Greater hardware and network capabilities. D) Greater speed and availability of the Internet. Which is the third step in the 4-step managerial decision making process? A) Create an appropriate model. (B) Determine possible solutions and evaluate them. (C) Recommend the best solution to the problem. D) Understand the problem completely. 3. Which of the following is a factor that may impact your company decisions? (A) All of the options are true. B) Change in government policies on related business regulations. C) The great increase in overseas shipping costs. D) The continued monthly decrease in the number of company customers. During which phase of the decision-making process is data collection conducted: (A) Intelligence C) Choice • B) Design D) Implementation 5. After which phase of the decision-making process is verification and testing of the suggested solution conducted: A) Intelligence (C)Choice B) Design D) Implementation 6. At which level of an organization is operational control carried-out: (A) Department level C) Upper management level B) Division level D) All of the options are true 7. Planning social responsibility and research and development are considered to be: A) Structured decisions (C) Non-structured decisions B) Semi-structured decisions D) None of the options are true 8. A characteristic that is more associated with a DSS than typical data-based systems: A) Multiple users (C) Mathematical modeling (B) User-friendly interface D) Reports generation What does ERP stand for? (A) Enterprise Resource Planning C) Electronic Resource Planning B) Enterprise Records Planning D) Electronic Records Planning \*10. DSS has undergone several naming transformations, what is the latest popular name? A) Expert systems (C) Analytics (B) Executive Information systems •D) Business intelligence

11. What is a main difference between an ERP system & previous functional systems  A) All of the options are true  B) It gets its data from the company's data warehouse.  C) It enables reports generation.  D) It presents a single source of truth for data items in the system.	?
12. Business Intelligence systems are NOT used for:  (A) Conducting analysis and producing reports based on historical data.  B) Data warehousing processes.  (C) Running day to day business transactions.  D) Enabling business performance management.	
A) Co. website sales transactions B) Social media communications C) ERP system All of the options are true	
14. What is the ETL process related to data warehousing used for?  A) All of the options are true  B) Extracting data from a data warehouse for analysis and reporting purposes  C) Extracting data from the enterprise data warehouse and loading in into a data mart  D) Extracting the data from ERP and other sources to be loaded into the data warehouse.	se
15. What is the main purpose of a data mart?  A) It is the only system where users may be able to generate analytics reports.  B) It is a staging area for data before being loaded into the data warehouse.  C) It is the only data storage where data mining models can be executed.  D) It is a subset of a data warehouse including data for a specific functional area.	
* 16. What is the main purpose of an operational data store (ODS)?  •A) It is the only system where users may be able to generate analytics reports.  •B) It is a staging area for data before being loaded into the data warehouse.  C) It is the only data storage where data mining models can be executed.  D) It is a subset of a data warehouse including data for a specific functional area.	
17. An enabler for descriptive analytics includes which of the following?  A) Expert systems C) Forecasting B) Data mining D)Data warehousing	
18. Predictive analytics aims to accomplish which of the following?  A) All of the options are true  B) Give decision makers guidance on which action to take  G) Gives a good idea of what to expect in the future  D) Describes clearly the current situation at hand	
19. In dealing with big data, the Hadoop distributed file systems (HDFS) enables the physical storage of data on which of the following?  A) One large server  C) A single super data warehouse  B) Many different servers  D) All of the options are true	
20. Big data may include which of the following data?  A) Streaming videos  C) Image files  Web logs  All of the options are true	
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IS 466 (Decision Support Systems) Midterm 2 V2 Student ID: Monday May 6, 2024 Spring 2023-2024 Prof. Abdulrahman Mirza Student Name: Read very carefully: Choose the best answer. ONLY use a small circle around the letter of the correct answer to make your choice. If you make a change, make sure to put an X on the wrong choice. 1. Which of the following is NOT one of the major AI technologies? A) Parallel processing C) Computer Vision B) Voice recognition D) Machine learning ▼ 2. An autonomous, small computer program that acts upon changing environments as directed by stored knowledge is called: A) Machine learning (C) Intelligent agent B) ERP D) Expert system 3. What type of system generates expert advice and give recommendations? A) Machine learning C) Intelligent agent B) ERP (D) Expert system \* 4. Integration of digital information within the user environment in real time. providing people real-world interactive experience with the environment is: (A) Augmentation C) Cognitive computing B) NLP D) Deep Learning 5. Natural language processing (NLP) is used for which of the following? A) Speech generation (C) All options are true B) Voice understanding D) text recognition 6. The ability to sit with experts and extracting (getting) their knowledge in order to develop an important DSS is called: (A) Knowledge acquisition C) None of the options are true B) Knowledge collection D) Knowledge representation 7. The persons who are responsible for extracting knowledge from experts are called: C) None of the options are true A) Knowledge developer (D) Knowledge engineer B) Knowledge collector 8. Walmart has started using AI in some of its stores, which of the following is a main component in their data analysis (C) All options are true A) Big data D) Video analysis B) Image recognition 9. For which of the following is AI used in Human resources management? · A) Future sales forecasting (C) All options are true B) Detecting hackers D) Personalized training ₹ 10. For which of the following is AI used in marketing and advertising? A) Customer segmentation (C) All options are true B) Website design D) Dynamic pricing

11. The main purpose of data mining  A) Experts in a field  (B) Patterns in the data	is use large sets of data to recognize:  C) Mathematical models  D) Statistical models	
12. How did data mining help the Mi	ami Dade police department with unsolved cases? as the conduct the crime.	
B) Encourage people to give	information to the police.	
(C) Match collected clues wit	th previous crimes	
All options are true.		
* 13. What made data mining a much a	more important option these days for businesses? houses © All options are true	
B) More data available	D) lower data processing costs	
14. The ability to find some relationship between different entities in DM is called?		
A) Clustering	C) Segmentation	
B) Prediction	D) Association	
15. The ability to predict the expects	d value of a specific entity after some time is:	
A) Classification	C) Market-basket analysis	
(B) Time-analysis	Sequence analysis	
Series  Series  Mich is the most commonly us	ed data-mining process by companies?	
(A) CRISP-DM	C) All are equal in popularity	
B) SEMMA	D) KDD	
	reloper needs to check if the existing data can help	
A) Data preparation	C) Testing and verification	
B) Business understanding		
	ing algorithm, where $K = 4$ , what is the percent of	
A) 4%	C) 25%	
B) 40%	D)\75%	
	what is the percent of truly predicted classes from	
(A) Precision	C) Recall	
B) Accuracy	D) True positive rate	
	the best splitting attribute selected to start at the	
root node?	table of selected data attributes.	
The first nominal data at	tribute in the list of attributes.	
B) The first nominal data at	decision tree algorithm being used.	
C) It depends on the actual	ribute in the list of attributes.	
D) The first ordinal data att	fibute in the list of attributes.	