## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2019** 

Course: Analytics in Banking Industry Program: B. Tech. CSE (BFSI) Course Code: CSIB 424

Time 03 hrs. Max. Marks: 100

**Semester: VIII** 

**Instructions: All questions are compulsory** 

## **SECTION A**

S. No.		Marks
Q 1	Algorithm is  A. It uses machine-learning techniques. Here program can learn from past experience and adapt themselves to new situations  B. Computational procedure that takes some value as input and produces some value as output  C. Science of making machines performs tasks that would require intelligence when performed by humans  D. None	2
Q 2	Background knowledge referred to  A. Additional acquaintance used by a learning algorithm to facilitate the learning process  B. A neural network that makes use of a hidden layer  C. It is a form of automatic learning.  D. None of these	2
Q 3	<ul> <li>Classification is</li> <li>A. A subdivision of a set of examples into a number of classes</li> <li>B. A measure of the accuracy, of the classification of a concept that is given by a certain theory</li> <li>C. The task of assigning a classification to a set of examples</li> <li>D. None of these</li> </ul>	2
Q 4	Data scrubbing is which of the following:  A. A process to upgrade the quality of data before it is moved into a data warehouse  B. A process to upgrade the quality of data after it is moved into a data warehouse  C. A process to load the data in the data warehouse and to create the necessary indexes  D. None	2
Q 5	Cluster is  A. Group of similar objects that differ significantly from other objects  B. Operations on a database to transform or simplify data in order to prepare it for a machine-learning algorithm  C. Symbolic representation of facts or ideas from which information can potentially be extracted  D. None of these	2

Q 6	A definition or a concept is if it classifies any examples as coming within	
	the concept	
	A. Complete	2
	B. Consistent	4
	C. Constant	
	D. None of these	
7	A goal of data mining includes which of the following?	
	A. To explain some observed event or condition	
	B. To confirm that data exists	2
	C. To analyze data for expected relationships	
	D. To create a new data warehouse	
8	An operational system is which of the following?	
	A. A system that is used to run the business in real time and is based on historical	
	data.	
	B. A system that is used to run the business in real time and is based on current	2
	data.	
	C. A system that is used to support decision making and is based on current data.	
	D. A system that is used to support decision making and is based on historical	
0	data.	
9	A data warehouse is which of the following?	
	A. Can be updated by end users.	2
	B. Contains numerous naming conventions and formats.	2
	C. Organized around important subject areas.	
10	D. Contains only current data.	
10	is a subject-oriented, integrated, time-variant, nonvolatile collection of	
	data in support of	
	management decisions.	•
	A. Data Mining.	2
	B. Data Warehousing.	
	C. Web Mining.	
1.1	D. Text Mining.	
11	The data Warehouse is	
	A. read only.	•
	B. write only.	2
	C. read write only.	
10	D. none.	
12	Expansion for DSS in DW is	
	A. Decision Support system.	•
	B. Decision Single System.	2
	C. Data Storable System.	
10	D. Data Support System.	
13	The data is stored, retrieved & updated in	
	A. OLAP.	_
	B. OLTP.	2
	C. SMTP.	
	D. FTP.	

14	defines the structure of the data held in operational databases and	
	used by operational applications.	
	A. User-level metadata.	2
	B. Data warehouse metadata.	2
	C. Operational metadata.	
	D. Data mining metadata	
15	consists of formal definitions, such as a COBOL layout or a database schema.	
	A. Classical metadata.	
	B. Transformation metadata.	2
	C. Historical metadata.	
	D. Structural metadata.	
16	databases are owned by particular departments or business groups.	
	A. Informational.	
	B. Operational.	2
	C. Both informational and operational.	
	D. Flat.	
17	Record cannot be updated in	
	A. OLTP	
	B. files	2
	C. RDBMS	_
	D. data warehouse	
18	The modern CASE tools belong to category.	
	A. analysis.	
	B. Development	2
	C. Coding	_
	D. Delivery	
19	Detail data in single fact table is otherwise known as	
	A. monoatomic data.	
	B. diatomic data.	2
	C. atomic data.	_
	D. multiatomic data.	
20	Reconciled data is	
	A. data stored in the various operational systems throughout the organization.	
	B. current data intended to be the single source for all decision support systems.	2
	C. data stored in one operational system in the organization.	_
	D. data that has been selected and formatted for end-user support applications	
21	The extract process is	
	A. capturing all of the data contained in various operational systems.	
	B. capturing a subset of the data contained in various operational systems.	2
	C. capturing all of the data contained in various decision support systems.	_
	D. capturing a subset of the data contained in various decision support systems.	
22	The type of relationship in star schema is	
	A. many-to-many.	
	B. one-to-one.	2
	C. one-to-many.	~
	D. many-to-one.	
	2. mmj 60 one.	

J.	warehouse architecture.  OR	10
31	D. All of the above.  Illustrate are the components of Data Warehouse? Discuss the three-tier data	
	<ul><li>B. Data Mining.</li><li>C. Analysis of large volumes of product sales data.</li></ul>	2
	A. Forecasting.	
30	Business Intelligence and data warehousing is used for	
	D. User interface.	
	C. Mathematical models and analytical tools.	4
	A. Architecture and network design. B. Database.	2
29	What is the most important component of a Decision Support System?	
20	D. None  What is the most important component of a Decision Symport System?	
	C. Transaction Processing System	
	B. File Drawer System	_
	A. Data Analysis System.	2
	integrity and consistency?	
28	What type of computerized system recordes current information and emphasizes data	
	D. Suggestion models.	
	C. Data analysis systems.	
	B. Accounting and financial models.	2
	A. Analysis Information systems.	
27	In which of Steven Alter's categories of DSS would you place data warehouses?	
	D. All of the above	
	C. Responds quickly to the changing needs of decision makers	_
	B. Includes a spreadsheet model.	2
20	A. Automates decision making.	
26	What should be a major characteristic of a DSS?	
	D. None of the above.	
	C. Fully automated	
	A. Manual B. Semiautomated	2
	entry?	
25	The use of a scanner in a retail store operation typically represents which type of data	
	D. expert system.	
	C. decision support system.	
	B. executive information system	2
	A. transaction processing system.	
24	An information system that captures and records fundamental business events is a(n):	
	D. None of the above.	
	C. executive level.	
	B. managerial level.	2
	A. operational level.	
	operations is the:	

	Explain different OLAP operations and applications.	
32	Design a BI application, which will provide Retail Chain Company with features and performance that meet their objectives. Use any Data mining technique.  OR  Let a set of elements S= {2,3,4,10,11,12,20,25,30}, using K means clustering algorithm explain what will be the possible clusters of elements if k= 2.	10
33	Explain how to plan a BI project? How to prioritizing and validating BI requirements?  OR  Write a short note on the following  a. Project resource of a BI project  b. Risk management and mitigation	10
34	Explain Top-Down Induction of Decision Tree. Examine the components of the Top-Down Induction of Decision Trees Procedure.  OR  Write a short note on  a. Best practices for BI design  b. Drill up and drill down approach	10