(8 pages)	Reg. No. :	2,	Which of the follomethods?
Code No.: 58	Sub. Code: WCSM 21		(a) Data Visualiz
M.Sc. (CBCS) DE	CGREE EXAMINATION, APRIL 2024.		<ul><li>(b) Data Discrett</li><li>(c) Data Cleanin</li></ul>
Co	Second Semester  mputer Science — Core		(d) Data Reducti
	NING AND WAREHOUSING who joined in July 2023 onwards)	3.	is a s variant, nonvolat management deci
Time : Three hour			<ul><li>(a) Data Mining</li><li>(b) Data Wareho</li></ul>
A	$\Gamma A - (15 \times 1 = 15 \text{ marks})$ answer ALL questions.		(c) Document Mi (d) Text Mining
1. Data mining	correct answer:  g is used to refer — stage e discovery in database.		discovering patte
(a) selection (b) retrievir			<ul><li>(a) Kohenon map</li><li>(b) Visualization</li></ul>
(c) discover (d) coding			(c) OLAP. (d) SQL.
(d) coding			

- owing is not a data pre-processing
  - ization
  - tization

  - ion
- subject-oriented, integrated, timetile collection or data in support of isions.
  - ousing
  - ining
- s the technique which is used for rns in dataset at the beginning of ess.

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A database containing volatile data used for daily operation of an organization is ————	8. Classification rules are extracted from —
(a) Historic data	(a) Root node (b) Decision tree
(b) Metadata	(c) Siblings (d) Branches.
(c) Knowledge.  (d) Operational data	9. The refers to extracting knowledge from larger amount of data.
. Query tools and data mining tools . are ————  (a) Same	<ul><li>(a) Data abstraction</li><li>(b) Data warehouse</li><li>(c) database</li></ul>
(b) Different (c) Complementary	(d) data mining.  10. In approach data ware house is build first and all information needed is selected.
(d) Standard.  Which of the following function involves data	(a) top-down (b) Clientlserver (c) bottom-up (d) DSS
cleaning, data standardizing and summarizing  (a) Storing data.  (b) Transforming data	11. OLAP is used to explore the knowledge.  (a) shallow
(c) Data acquisition (d) Data Access.	(b) deep (c) multidimensional (d) hidden.
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12.	facilitate effective decision making is to setup a
	(a) database.
	(b) data mart.
	(c) data warehouse.
	(d) operational
13.	Smaller local data warehouse is called as —
	(a) data mart.
	(b) database.
	(c) data model.
	(d) meta data.
14.	Data warehouse is only used for —
	(a) operating the data
	(b) managing the data
	(c) decision making
	(d) queries.

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- 15. The main organizational justification for implementing a data warehouse is to provide ————
  - (a) cheaper ways of handling transportation.
  - (b) decision support.
  - (c) storing large volume of data
  - (d) access to data.

PART B — 
$$(5 \times 4 = 20 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 250 words.

16. (a) Elucidate the issues in data mining.

Or

- (b) Describe the data mining from a database perspective.
- 17. (a) Elaborate the decision tree algorithm C4.5 improves ID3.

Or

- (b) Summarize the propagation in neural network-based algorithms.
- 18. (a) Point out the concept of outliers in clustering.

Or

(b) Assess the divisive clustering in hierarchical algorithms.

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19. (a) Discover the different types of data marts.

Or

- (b) Distinguish between the OLTP and OLAP systems.
- 20. (a) Express the data warehouse architectural strategies and organizational issues.

Or

(b) Conclude the performance consideration in data warehouse.

PART C —  $(5 \times 8 = 40 \text{ marks})$ 

Answer ALL questions, choosing either (a) or (b) Each answer should not exceed 600 words.

21. (a) Examine the concept of decision trees in data mining.

Or

- (b) Demonstrate the activate functions in neural networks.
- 22. (a) Outline the regression in statistical-based algorithms.

Or

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- (b) Illustrate the K-nearest neighbors of distancebased algorithms
- 23. (a) Compare and construct parallel and distributed algorithms.

Or

- (b) Enumerate the implementation of PAM algorithm.
- 24. (a) Discuss the categories of OLAP tools.

Or

- (b) Analysis the Cognos PowerPlay in state of the market.
- 25. (a) Justify the crucial decisions in designing a data warehouse.

Or

(b) Explain the census data in national data warehouses.

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