PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - STATISTICS

MAJOR ELECTIVE COURSE - II: DATA MINING AND WARE HOUSING

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Time: Three Hours				Maximum: 50 Marks
			Answer ALL questions estions carry EQUAL marks	$(5 \times 1 = 5)$
1.	(dentify, the total categori i) 5 iii) 3	es of functions that are involve (ii) 4 (iv) 2	d in Data Mining are:
2.	In Data Warehousing, which of these is the correct advantage of the Update-Drive Approach? (i) It provides high performance (ii) It can be processed, copied, annotated, integrated, restructured and summarised in advance in the semantic data store (iii) Both of the above (iv) None of the above			
3.	(i	i) Machine Learning	Oata Mining System consists of (ii) Information Science (iv) All of the above	
4.	Which is true for neural networks? (i) It has set of nodes and connections (ii) Each nodes computes it's weighted input (iii) Node could be in excited state or non excited state (iv) All of the above			
5.		must by Functionality ii) Both (i) and (ii)	e considered before investing i (ii) Compatibility (iv) None of the above	n data mining.
			ECTION - B (15 Marks) Answer ALL Questions estions Carry EQUAL Marks	$(5 \times 3 = 15)$
6.	(a) (b)	What is data warehouse Discuss about the impor	? Explain with a example. (OR) rtance of metadata.	
7.	(a) (b)	What is Data mining? Justify the Pincer Search	(OR)	
8.	(a)	Explain clustering parace Evaluate decision trees.		
9.	(b) (a)	Explain neural network	(OR)	
	(b)	State the rough sets in n	eural network.	

10. (a) Discuss the web mining.

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(b) Explain sequence mining.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- 11. (a) Briefly explain multidimensional data model.
 - (b) Elucidates data warehouse and its backward process.
- 12. (a) Compare the following terms (i). KDD vs. Data mining and (ii). DBMS vs. DM (OR)
 - (b) Classify the needs of association rules in DM.
- 13. (a) Construct the partitioning algorithm with k-medoid algorithm. (OR)
 - (b) Discuss decision tree construction algorithm.
- 14. (a) Explain Data mining techniques using neural network.
 - (b) Categorize the applications of neural network.
- 15. (a) Construct the web structure mining and text mining.
 - (b) Create the concept of temporal association rules and its importance.

END