PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2022

(Sixth Semester)

Branch - COMMERCE (BUSINESS ANALYTICS)

DATA MINING AND BUSINESS INTELLIGENCE

	SECTION-A	(10 Marks)	
	Answer AL		
	ALL questions carry		$(10 \times 1 = 10)$
	ALL questions carry	EQUIL Marks	(10 11 10)
1	in a data warehouse is sim	ilar to the data diction	nary or the data catalog
•	in a database management system.		e germania
	(i) Metadata	(ii)Schema	
,	(iii) Data mart	(iv) database	
_		on the might consists	of all the different
2	The component shown on the right consists of all the different ways of making the information from the data warehouse available to the users.		
	(i) Information Delivery	(iv) Source Data	
	(iii) Data Storage	(IV) Source Data	
3	Data warehouse architecture is based of	on	
	(i) DBMS (ii) RDBMS.	(iii) Sybase.	(iv) SQL Server.
4	The operation of moving from finer-gr	ranularity data to a co	earser granularity (by
•	means of aggregation) is called a		
	(i) Rollup (ii) Drill down	(iii) Dicing	(iv) Pivoting
5	Which of the following is an essential	process in which the	intelligent methods are
	applied to extract data patterns?		
	(i)Warehousing	(ii)Data Mining	
-	(iii)Text Mining	(iv)Data Selection	1
6	The initial steps concerned in the proc	ess of knowledge dis	covery is:
U	(i) Data Selection		on
	(iii) Data Cleaning	(iv) Data Transfo	rmation
)	S. S	t is called as	
7	Frequency of occurrence of an itemse	(ii) Confidence	
	(i) Support	(iv) Rules	
	(iii) Support Count	(IV) Rules	
8	What techniques can be used to impro	ove the efficiency of a	priori algorithm?
	(i) Hash-based techniques	(ii) Transaction In	ncreases
	(iii) Sampling	(iv) Cleaning	
0	Which of the following areas are affe	cted by BI?	
9	(i) Revenue (ii) CRM	(iii) Sales	(iv) CPM
10	phase of the data analytics life	cycle usually takes th	e longest time.
TO	(i) Phase 2: Data Preparation	(ii) Phase 3: Moo	del Planning
	(iii) Phase 4: Model Building	(iv) Phase 5: Con	nmunicate Results

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 7 = 35)$

- Discuss about the life cycle of data business intelligence.

 OR

 b Clarify the advantages and disadvantages of Top-Down Versus Bottom-Up Approach.
- 12 a Compare the difference between ROLAP and MOLAP.
 - b Write a Statement about on OLAP and its characteristics.
- 13 a Discuss the major issues in data mining
 - b Narrate the strategies involved in Data reduction process.
- 14 a Clarify about the concept of concept description.

OR

- b Illustrate about Data Generalization and summarization based characterization.
- 15 a Clarify the few major applications of data mining in the business area.

OR

b Determine the key role for successful data analytical project.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- 16 Determine the significant trends in data warehousing.
- Explain in detailed about data warehouse architecture with neat diagram.
- Outline about the various task performed by data mining.
 - Explain in detailed about the problem definition and important concepts of Association Rule mining.
- 20 Elucidate the data mining application used in Telecommunication Industry.

Z-Z-Z

END