<u>RDBMS</u>(Relational Database Management System)

<u>Unit I:</u>

1.	What is RDBMS?	[2017]
2.	What is Primary Key?	[2017]
3.	Describe Foreign Key.	[2017]
4.	What is attribute?	[2017]
5.	Explain self reference constraint with suitable example.	[2017]
6.	What is Normalization? Explain 1NF, 2NF, 3NF and BCNF with examples.	[2017]
7.	What is the responsibility of DBA?	[2015]
8.	Differentiate between physical and logical views of data.	[2016]
9.	Enlist symbols is used in E-R model.	[2016]
10.	What is tuple variable?	[2016]
11.	What do you mean by functional dependencies?	[2016]
12.	What is primary key?	[2016]
13.	What is transaction?	[2016]
14.	Differentiate between weak and strong entity set with example.	[2016]
15.	What is self reference constraint? Explain with the help of an example.	[2016]
16.	What do you understand by Normalization? Explain the 1NF,2NF,3NF and BCNF with	n the
	suitable 1 examples	[2016]
17.	Define the fundamental operation of relational algebra with suitable examples.	[2016]
18.	Define 3NF?	[2015]
19.	Write down two constraints that a key satisfies.	[2015]
20.	What is the significance of NULL values?	[2015]
21.	What is candidate key?	[2015]
22.	What is super key?	[2015]
23.	Explain types of data independencies in DBMS.	[2015]
24.	What is Normalization? Explain normalization from 1NF to DKNF with suitable	[2015]
	example.	
25.	Explain various relational algebraic operators with suitable example.	[2015]
26.	What are the components of data dictionary? Discuss active and passive data dictio	naries
		[2014]
27.	Draw an E-R diagram for a hospital system. Convert this diagram to a suitable relation	onal
	scheme.	[2014]
28.	Explain fair dependency.	[2014]
29.	What do you mean by objects of database?	[2014]
30.	Explain different constrains used in database.	[2014]
31.	What is Normalization and its utility in database? Explain functional and fully function	onal
	dependency with suitable example.	[2014]
32.	What do you mean by Relational Databases?	[2013]
33.	What is data integrity?	[2013]
34.	What is Normalization? Explain it up to BCNF with a suitable example?	[2013]

Draw an E-R diagram of COLLEGE management System and show the following:

[2013]

- 35. Explain following:
 - a. Generalization
 - b. Specialization
 - c. Aggregation

Unit II:

	1.	What is object level modeling?	[2017]	
	2.	Explain different types of protocols to handle concurrency control in RDBMS.	[2017]	
	3.	What do you know about Transaction Management? Describe data recovery techniques	[2017]	
	4.	Explain architecture of database design.	[2016]	
	5.	Explain different types of protocols to handle concurrency control in DDBMS.	[2016]	
	6.	What is a transaction?	[2015]	
	7.	What is conflict serialibility? Explain it.	[2015]	
	8.	Explain various locking protocols with suitable example.	[2015]	
	9.	A) Explain Architecture of distributed database design?	[2015]	
		B) Write down advantages and disadvantages of distributed database.	[2015]	
	10.	Define a serializable schedule.	[2014]	
	11.	Define the timestamp band concievency management scheme.	[2014]	
	12.	Explain ACID properties of a transaction.	[2014]	
	13.	How do you mean by temporal database.	[2014]	
	14.	14. A) what are the various ways in which concurrency control can be implemented in a database.		
		B) Explain the various ways in which database recovery and backup can be implemented	•	
			[2014]	
	15	How do you implement a distributed database in real time environment?	[2014]	
		How do you implement a distributed database in real time environment?		
dat		What do you mean by object oriented modeling? Explain in features of objects oriented		
uat	auas	se with suitable example.		
	17	. Write short note on the following:	[2014]	
		a)association Rule		
		b)Classification		
		c)DTD scheme		
		d)Select and join		
	18	. Write short notes on multimedia database and locking.	[2014]	
	19	. What is Temporal database?	[2013]	
	20). What is data placement?	[2013]	
	21	I. Write short note on the following:	[2013]	

-> Distributed database	
->Object oriented modeling	
22. What is a transaction? What are its various states?	[2013]
23. What are various objects of a database system? Explain.	[2013]
24. What is concurrency in database? Explain two phase locking with an example?	[2013]
25. What is Data Mining? Write the association rule?	[2013]

Unit III:

1.	What is XML?	[2017]
2.	What is Data Mining Association Rules?	[2017]
3.	What is Data warehousing?	[2017]
4.	What is Query optimization?	[2017]
5.	Write a algorithm for external sorting	[2017]
6.	Clarification of Association Rule Minining.	[2017]
7.	What is DTD schema?	[2016]
8.	What is temporal database?	[2015]
9.	What is data mining?	[2015]
10	. What is DTD? How it is used with XML?	[2015]
11	. What are the basic components of query processor? discuss .	[2014]
12	. How can a query can be optimized write down the algorithm for external sorting.	[2014]
13	. a) Explain the four levels of architecture is the data warehouse environment.	[2014]
	b)List out the difference is OLTP and OLAP	[2014]
14	. Explain a three tier architecture of data ware house.	[2014]
15	. Illustrate the various schemes for multi dimensional databases.	[2014]
16	. What are various data recovery techniques?	[2013]
17	7. What is file organization? List the merits and demerits of random file organization?	[2013]
18	3. What is query optimization? how it is performed?	[2013]

Unit IV:

1.	Explain DML	[2017]
2.	What do you know about DDL?	[2017]
3.	What is PL/SQL?	[2017]
4.	Write the syntax of any 2 string function	[2017]
5.	Explain Various Data types in PL/SQL.	[2017]
6.	Difference between stored procedure and function.	[2017]
7.	Explain Security and integrity of database	[2017]

8. What is trigger? Explain with example.	[2017]
 9. Explain any five aggregate functions with a suitable example. 	[2017]
10. Differentiate between delete and truncate commands.	[2017]
11. Explain "on delete set Null" clause of foreign key constraint.	[2016]
12. Write syntax of any two string functions.	[2016]
13. Explain any four DCL commands.	[2016]
14. What are the various data types of SQL?Explain.	[2016]
15. Differentiate between stored procedure and functions.	[2016]
16. Explain the concept of updates through views in DDBMS.	[2016]
17. What is cursor? Explain the various types of cursors available in oracle with their	[2016]
Attributes.	
18. Explain any five SQL aggregate functions with an example of each.	[2016]
19. Write a function to accept a number and return sum of digits of it.	[2016]
20What do you mean by database security? Discuss the different ways to achieve databa	ase
security.	[2016]
21. Write down 4 aggregate function of SQL	[2015]
22. What are DDI,DML,DCL commands? Differentiate them.	[2015]
23. What difference between a table and a view?	[2015]
24. A) Explain how we can create and execute a function in PL/SQL?	[2015]
B) Write a program to create a function to return factorial of given number using PL/SC	QL.[2015]
25. A) What is trigger?Explain various types of triggers?	[2015]
B) Write a PL/SQL program to create a trigger and explain it.	[2015]
26. What is check point? How is check point information and for recovery in databases.	[2014]
27. What is Oracle transaction.	[2014]
28Explain multivalued dependency with the help of an example how it is related to 4NF	[2014]
29. Explain stored function and stored procedures with differences .	[2014].
30. What are indexes?	[2013]
31. List five DML commands in SQL	[2013]
32. What is difference between a WHERE clause and a HAVING clause of SQL select	[2013]
statement?	
33. What is function in SQL ? What are its various types?	[2013]
34. What is the functionality of following operator in SQL:	[2013]
a)ANY	
b)EXISTS	
35. What is JOIN in sql?Explain?	[2013]
36. Explain the following:	
1)Stored procedure	
2)Trigger	