D. All of the mentioned

B. Relational

D. Structural

query language that takes two relations as input and produces

C. Date of birth

another relation as an output of the query.

Q7. Relational Algebra is a

A. Procedural

C. Fundamental

[2]

Q8. Which of the following is used to denot	e the selection operation in relational algebra?
A. Sigma (Greek)	B. Lambda (Greek)
C. Pi (Greek)	D. Omega (Greek)
Q9. The statement in SQL which allows cha	inging the definition of a table is
A. Create.	B. Update.
C. Alter.	D. Select.
Q10. Which is not anomalies that occur whe	en the database is not normalized
A. Deletion	B. Update
C. Select	D. Insertion
Q11. Which-one of the following statement:	s about normal forms is FALSE?
A. BCNF is stricter than 3 NF	
B. Loss less, dependency - preservir	ng decomposition into BCNF is always possible
C. Lossless, dependency -preserving	decomposition into 3 NF is always possible
D. Any relation with two attributes i	s BCNF
Q12. Which functional dependency types is	/are not present in the following dependencies?
Empno -> EName, Salary, D	eptno, DName
DeptNo -> DName	
EmpNo -> DName	
A. Partial functional dependency	B. Both Partial and Transitive
C. Transitive functional dependency	D. Full functional dependency
	sections, How many section is mandatory?
A. TWO	B. ONE
C. THREE	D. FOUR
Q14. All steps are using in an Explicit Curs	sor expect:
A. OPEN	B. EXCEPTION
C. DECLARE	D. FETCH
Q15. How many rows will be inserted in the	e messages table? In this program:
DECLARE v_start_sales NUMBER := 2; v_end_sales NUMBER := 100; BEGIN FOR i IN v_start_salesv_end_sal INSERT INTO messages(msgid) VALUES v_start_sales; END LOOP; END;	les LOOP
A. 0 C. 100	B. 99 D. 1
N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D. I

Q.5 What is Application Programming Interface?

	L-1	
Q16. Which of the following is not true	about PL/SQL decision making structures?	
A. The IF-THEN-ELSIF stateme	ent allows you to choose between several alterna	atives.
B. The IF statement associates a THEN and END	condition with a sequence of statements enclos	ed by the keyword
C. The IF statement also adds the statement.	e keyword ELSE followed by an alternative sec	quence of
D. PL/SQL have a CASE stateme		
Q.17. Which is correct sequence of quer		
A. Parsing and translation ->optiB. Evaluation-> Parsing and translation		
C. Optimization->evaluation-> P		
D. Optimization-> Parsing and tr		
Q.18. Files are logically partitioned into A. Blocks		
C. Segment	B. Track D. Sectors	
	is that can be used to evaluate a query are called	d as
A. Query evaluation plan	B. Query evaluation algebra	
C. Query evaluation primitive	D. Query evaluation engine	
Q.20. Which are small fixed portions the complex structures for their allocations.	at provide greater flexibility and it may require ation?	large tables or
A. Blocks	B. Columns	
C. Partitions	D. Segments	
	SECTION – B	
(Very	Short Answer Type Questions)	
Note: Attempt all questions. Answer u	ising 2-3 sentences.	each 2 marks
Q.1 What is Information?		
Q.2 What is Object oriented data	ıbase?	
Q.3 What is inner join?		
Q.4 What is relationship?		
Q.5 What do you understand by	view in SQL?	
Q.6 What is embedded SQL?		
Q.7 What is purity function?		
Q.8 What are the advantages of p		
Q.9 What is Security and recover	ry?	
Q.10 What is domain constraints		
	SECTION – C	
	ort Answer Type Questions)	
Note: Attempt all questions. Answer p		each 3 marks.
Q.1 What is the data independent		
Q.2 What is client/server databas		
Q.3 What is Specialization in ER		
Q.4 What is difference between s	simple and complex queries?	

Q.6 What do understand by functional dependence?	
Q.7 Write the advantage of PL/ SQL.	
Q.8 What is parameterized cursors?	
Q. 9 What is optimization?	
Q. 10 What is security and authorization in SQL?	
SECTION – D	
(Long Answer Type Questions)	
Note: Attempt all question. Answer precisely using 150 words. each 6 mark	ks.
Q.1 What data problems tend to arise in application development? What are the advantages of the DB approach to application development? Why is the Relational Database Approach better than earl methods?	
OR OR	
Explain the following:-	
(i) Database Languages (ii) Contents of Data Dictionary	
Q.2 What do you mean by relational algebra? Explain the different types operation with example.	
OR	
Explain the following:- (i) Tuple Relational calculus (ii) Concept of keys Q.3. What do you mean by pitfalls in database design? Explain the various types of anomalies.	
OR	
Explain the following:- (i) Role of Decomposition in Database (ii) Type of Integrity Constraints	
Q.4. Write the PL/SQL program for print following series	
1 3 5 7 9n	
Write the PL/SQL Program to Print Patterns	

*	
Q.5. What is the Indexing? Explain the indexed file B- tree and B ⁺ tree	
OR	
Explain the following:-	
(i) File Organization	
(ii) Query Processing	