DAV PUBLIC SCHOOL



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**SUBJECT: INFORMATICS PRACTICES**

**DURGA PUJA HOLIDAY ASSIGNMENT 2025-26**

**CLASS XI**

Choose the correct answer:

1. A **domain** in relational model is:  
   a) The set of valid values an attribute can take  
   b) A primary key  
   c) A candidate key  
   d) A relation
2. In a table of students, "Roll Number" which uniquely identifies each student is:  
   a) Candidate Key b) Primary Key  c) Alternate Key d) Foreign Key
3. If a relation has more than one **candidate key**, one of them is chosen as:  
   a) Foreign Key  b) Alternate Key  c) Primary Key  d) Composite Key
4. Which of the following can be considered a **relation**?  
   a) A table with rows and columns  
   b) A single value  
   c) A paragraph of text  
   d) A graph
5. Which key is derived from candidate keys but **not chosen as primary key**?  
   a) Super key  b) Foreign key  c) Alternate key  d) Domain key
6. Which of the following is a valid candidate key in "Employee" table (EmpID, Name, AadharNo)?  
   a) EmpID  b) AadharNo  c) Both (a) and (b) d) Name
7. Which statement about **primary key** is true?  
   a) It can have duplicate values  
   b) It can be NULL  
   c) It uniquely identifies each tuple  
   d) It must be composite..
8. Differentiate between **relation** and **tuple**.
9. Define **candidate key** and **primary key**. Give examples.
10. **Error Finding:** A student stores Roll Number as primary key, but allows duplicate roll numbers in the table. Identify the error and correct it.
11. **Error Finding:** In a table "Employee(EmpID, Name, AadharNo)", the student chooses "Name" as the primary key. Explain why this is wrong and suggest the correct key.
12. **Application-Based:** A library database has "BookID, ISBN, Title, Author". Identify candidate keys and choose a primary key.
13. **Application-Based:** In a class database (RollNo, Name, PhoneNo), both RollNo and PhoneNo can uniquely identify a student. Which should be chosen as primary key and why?
14. **Assertion-Reason (AR):**

* Assertion (A): A primary key cannot contain NULL values.
* Reason (R): Primary key must uniquely identify each tuple.  
  Options: a) A true, R true, R explains A b) A true, R true, R not explanation c) A true, R false d) A false, R true

15. **Assertion-Reason (AR):**

* Assertion (A): An alternate key is also a candidate key.
* Reason (R): Any key not selected as primary key becomes an alternate key.  
  Options: a) A true, R true, R explains A b) A true, R true, R not explanation c) A true, R false d) A false, R true

**Biology**

1. **Prepare Investigatory Project file on the topic of your choice.**
2. **Update your Practical copy and submit for signature.**
3. **Solve all the given worksheet.**