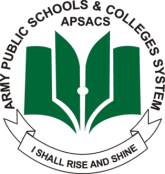
**Army Public School & College JPJ CANTT**

**Preparatory Test Series( PTS I ) 2023**

**Subject: Computer Science Class: XI Section: \_\_\_\_\_\_\_\_**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No : \_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_**

**Total Marks: 50 Obt. Marks: \_\_\_\_**

**Section - A**

**Q.No.1. Choose the correct option: (1x10=10)**

|  |  |  |  |
| --- | --- | --- | --- |
| **i.** Oracle is an application of | | | |
| A) Database | B) File Management System | C) Database Management System | D) All of these |
| **ii.** Data inconsistency is a drawback of: | | | |
| A) File Management System | B) Database Management System | C) ERD | D) None of these |
| **iii.** Which theoretical foundation of a data base determines that how data is stored, organized, and manipulated? | | | |
| A) Database Model | B) Database Structure | C) Database Design | D) Database Architecture |
| **iv.** The relationship between entities AUTHOR and BOOK is: | | | |
| A) Unary | B) Binary | C) Ternary | D) Recursive |
| **v.** Identify the cardinality of the following relationship: One COLLEGE can have many DEPARTMENTs, One DEPARTMENT belongs to one COLLEGE. | | | |
| A) One-to-One | B) One-to-Many | C) Many-to-Many | D) Many-to-One |
| **vi.** Duplication of data in different files is called | | | |
| A) Data Inconsistency | B) Data Redundancy | C) Data Overflow | D) None of these |
| **vii.** An attribute is also called | | | |
| A) Record | B) Entity | C) Field | D) Relation |
| **viii.** Which key uniquely identifies a record in a table | | | |
| A) Alternative Key | B) Candidate Key | C) Foreign Key | D) Primary Key |
| **ix.** A database table is also called | | | |
| A) Attribute | B) Records | C) Relation | D) All of these |
| **x. ERD** stands for | | | |
| A) Entity Related Diagram | B) Entity Relating Diagram | C) Entity Relation Diagram | D) Entity Relate Diagram |

**Section - B**

**Q.2. Write short answers. All questions carry equal marks. (3\*10=30)**

1. Why database management system was needed?
2. What are the responsibilities of DBMS?
3. Which problems were faced in File Management System?
4. How many types of database models are there?
5. What is meant by DDL, DML, DCL.
6. Define primary and candidate key.
7. What is the significance of ERD?
8. Why normalization is done during the development of a database?
9. Define first three normal forms.
10. Define degree of relationship.

**Section –C**

**Q.3. Briefly explain the following question. (10)**

1. Explain all the steps of planning a database.