Computer Aptitude Important Questions - 2

- 1. A super key in a relational database is:
 - A. A single attribute only that uniquely identifies a record
 - B. A set of one or more attributes that collectively identify a record uniquely
 - C. A key that is always the primary key
 - D. A key that is always a foreign key

Answer: B

- 2. Which key is a **minimal** super key, i.e., no attribute can be removed without losing the unique identification property?
 - A. Foreign key
 - B. Candidate key
 - C. Sub key
 - D. Alternate key

Answer: B

- 3. A **foreign key** in one table is always:
 - A. A super key in another table
 - B. A primary key in another table
 - C. An alternate key in the same table
 - D. A candidate key in another table

Answer: B

- 4. If ID is unique for every person, which of the following is also a super key?
 - A. ID
 - B. (CITY, ID)
 - C. (ID, NAME)
 - D. All of the above

Answer: D

- 5. Which of these cannot be a super key?
 - A. NAME (if names are not unique)
 - B. (CITY, ID)
 - C. ID
 - D. (ID, CITY, NAME)

Answer: A

- 6. Which of the following is the standard language used to query and retrieve information from a relational database?
 - A. SQL
 - B. HTML
 - C. XML

	D. PHP Answer: A
7.	In database systems, the language used to request specific information is called: A. Query Language B. Compiler Language C. Assembly Language D. Machine Language Answer: A
8.	In the relation Student(ID, name, dept_name, tot_cred), which attribute should be chosen as the primary key? A. name B. dept_name C. tot_cred D. ID Answer: D
9.	The operation allows combining two relations by merging pairs of tuples, one from each relation, into a single tuple. A. Select B. Join C. Union D. Intersection Answer: B
10.	Which of the following join types returns only the rows with matching values in both tables? A. INNER JOIN B. LEFT JOIN C. FULL JOIN D. CROSS JOIN Answer: A
11.	What is the main difference between a JOIN and a UNION in SQL? A. JOIN combines rows based on related columns, UNION combines results of queries B. JOIN removes duplicates, UNION does not C. JOIN works only on numeric data, UNION works on all data types D. There is no difference
	Answer (A) . JOIN combines rows based on related columns, UNION combines results of queries

12.	A is a pictorial depiction of the schema of a database that shows the relations, their attributes, primary keys, and foreign keys. A. Schema diagram B. Relational algebra C. Database diagram D. Schema flow Answer: A
13.	Which diagram is commonly used to visually represent entities, attributes, and relationships in a database? A. Flowchart B. Entity-Relationship (ER) diagram C. Network diagram D. Gantt chart Answer: B
14.	How do structures and classes differ in terms of member access in C++? A. In structures, members are public by default; in classes, members are private by default B. In structures, members are private by default; in classes, members are public by default C. Both structures and classes have members public by default D. Both structures and classes have members private by default Answer: A
15.	In C++, wrapping data and its related functions into a single unit is called: A. Abstraction B. Encapsulation C. Polymorphism D. Modularity Answer: B
16.	What is the main benefit of encapsulation in C++? A. Code reuse B. Hiding data implementation from outside access C. Overloading functions D. Creating base and derived classes Answer: B
17.	Which principle of OOP helps in organizing code into logical, manageable pieces? A. Polymorphism B. Modularity C. Encapsulation D. Abstraction Answer: B

 24. In OOPs which concept allows you to reuse the written code? A. Encapsulation B. Abstraction C. Inheritance D. Polymorphism
Correct Answer – (C) Inheritance
 computing refers to applications and services that run on a distributed network using virtualized resources.
A. Distributed B. Cloud C. Soft D. Parallel
Correct Answer - B. Cloud
 26. The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called? A. Skynet B. Bot 2 Bot C. Machine 2 Machine D. Intercloud Correct Answer - C. Machine 2 Machine
 27. Internet of Things needs a lot of network connection. What is the proposed "white Space" radio standard called? www.myeducationwire.com A. Bluetooth B. WiMax C. Weightless D. Zigbee Correct Answer - C. Weightless
 28. Which of the following cloud concept is related to pooling and sharing of resources? A. Polymorphism B. Abstraction C. Virtualization D. None of the above Correct Answer - C. Virtualization
29 is a community that is working together to establish an IoT architecture.A. Eclipse IoT

	B. Red Hat
	C. Intercloud
	D. Bot 2 Bot
	Correct Answer - A. Eclipse IoT
30.	is a framework for performing remote procedure calls and data serialization.
	A. Drill
	B. BigTop
	C. Avro
	D. Chukwa
	Correct Answer - C. Avro
31.	can best be described as a programming model used to develop Hadoop-based
	applications that can process massive amounts of data.
	A. MapReduce
	B. Mahout
	C. Oozie
	D. All the above

Correct Answer - A. MapReduce