Question 1

Single Correct Option, +2.00, -1.00

DBMS is an interface between

A Database and User

B Database application and Database

C Database and SQL

D Data and Database

✔ Your Answer is Correct

Correct Answers: B

Your Answers: B

Question 2

Single Correct Option, +2.00, -1.00

Which of the following is not a disadvantage of the file system to store data?

A Data redundancy and inconsistency

B Difficulty in accessing data

C Data isolation is not present

D High cost

✔ Your Answer is Correct

Correct Answers: D

Your Answers: D

Question 3

Single Correct Option, +2.00, -1.00

Given the data provided below choose the most suitable Primary Key.

FirstName	LastName	Age	Place of Birth
Jack	Smith	20	London
Jane	Brown	22	London
Jack	Brown	20	London
Jeff	Brown	20	Liverpool
Jeff	White	22	Liverpool
Jack	Brown	20	Liverpool

A FirstName, LastName, Age, Place Of Birth

B FirstName, LastName, Place Of Birth

C LastName, Age, Place Of Birth

D FirstName, LastName, Age

✔ Your Answer is Correct

Correct Answers: B

Your Answers: B

Question 4

Single Correct Option, +2.00, -1.00

Scenario:

Consider an application for Club membership. There are many clubs at different locations. A club can have many members. Each member belonging to a particular club has a unique identity number. The member id can be the same for different clubs. The below relations are created.

- Club (ClubId, Name, Location)
- Member (ClubId, MemberId, Name, Address)

Identify the Primary key for Club relation.

A ClubId

B Name

C Location

✔ Your Answer is Correct

Correct Answers: A

Your Answers: A

Question 5

Single Correct Option, +2.00, -1.00

Scenario:

Consider an application for Club membership. There are many clubs at different locations. A club can have many members. Each member belonging to a particular club has a unique identity number. The member id can be the same for different clubs. The below relations are created.

- Club (ClubId, Name, Location)
- Member (ClubId, MemberId, Name, Address)

Identify the Primary key for Member relation.

A ClubId

B MemberId

C Name

D {ClubId, MemberId}

✔ Your Answer is Correct

Correct Answers: D

Your Answers: D

Question 6

Single Correct Option, +2.00, -1.00

Scenario:

Consider an application for Club membership. There are many clubs at different locations. A club can have many members. Each member belonging to a particular club has a unique identity number. The member id can be the same for different clubs. The below relations are created.

- Club (ClubId, Name, Location)
- Member (ClubId, MemberId, Name, Address)

Identify the Foreign key for Member relation.

A ClubId

B MemberId

C Name

D Address

✔ Your Answer is Correct

Correct Answers: A

Your Answers: A

Question 7

Single Correct Option, +2.00, -1.00

Scenario:

Consider an application for a training institute. Here, a participant can enrol for multiple courses. A course can be enrolled by many participants. Assessments are conducted for courses and marks are awarded to participants. A participant is allowed to take assessment only once for a course. A participant can enrol for a course only if he/she has undertaken the prerequisite course. The below relations are created for the application.

Participant (ParticipantId, Name, Address)

Course (CourseId, Desc, Duration, Prerequisite)

Assessment (CourseId, Marks, ParticipantId)

Identify the Primary key for Participant relation and Assessment relation-

A ParticipantId, CourseId

B Name, CourseId

C Address, ParticipantId

D ParticipantId, {CourseId, ParticipantId}

✔ Your Answer is Correct

Correct Answers: D

Your Answers: D

Question 8

Single Correct Option, +2.00, -1.00

Scenario:

Consider an application for a training institute. Here, a participant can enrol for multiple courses. A course can be enrolled by many participants. Assessments are conducted for courses and marks are awarded to participants. A participant is allowed to take assessment only once for a course. A participant can enrol for a course only if he/she has undertaken the prerequisite course. The below relations are created for the application.

- Participant (ParticipantId, Name, Address)
- Course (CourseId, Desc, Duration, Prerequisite)
- Assessment (CourseId, Marks, ParticipantId)

Identify the **Foreign key for Course relation.**

A CourseId

B FK Does Not exist

C Prerequisite

✔ Your Answer is Correct

Correct Answers: C

Your Answers: C

Question 9

Single Correct Option, +2.00, -1.00

Scenario:

Joho Limited, a firm in the digital media and entertainment domain, has gaming zones in different locations. Due to growth in business, the firm decided to use relational databases to store customer information, product information, and day to day transactional information.

Question: As per the business scenario, a 'Customer' relation is identified with 'CustomerId', 'CustomerName', 'City', 'ContactNumber', 'EmailAddress' as its attributes. While CustomerId, and EmailAddress are unique for every customer, the business requirement says that it is not mandatory for a customer to provide his EmailAddress.

Which of the following would best suit the above context?

A CustomerId, EmailAddress can Individually become candidate keys and CustomerId becomes the primary key

B CustomerId, EmailAddress can individually become candidate keys

C This relation does not have any candidate key

D CustomerId is the candidate key as well as the primary key

✔ Your Answer is Correct

Correct Answers: D

Your Answers: D

Question 10

Multiple Correct Options, +2.00, -1.00

Scenario:

Joho Limited, a firm in the digital media and entertainment domain, has gaming zones in different locations. Due to growth in business, the firm decided to use relational databases to store customer information, product information, and day to day transactional information.

Question:

One of the requirements read 'games played by the customer are to be tracked with the timestamp'. While trying to implement this requirement, the expert team finds it necessary to have a transaction table that would have the details of the games played by the customer along with the date and time details.The transaction table is named as gaming with attributes TransactionId, CustomerId, GameId, Date, StartingTime, FinishingTime, AmountPayable. Attributes CustomerId and GameId in the gaming table can take values that are present for customerId and GameId present in customer and game tables respectively.

Which of the following two options would best suit the above context? [**Choose any TWO**]

A. CustomerId and GameId present in the gaming table can take duplicate values.

B. CustomerId in the Customer table references the CustomerId in the gaming table and the gameId in the Game table references GameId in the gaming table

C. CustomerId and GameId are foreign keys present in child table gaming, referring to CustomerId and GameId, the primary keys present in parent tables, Customer and Game respectively

D. CustomerId and GameId present in gaming table cannot take null values and duplicate values

✔ Your Answer is Correct

Correct Answers: A | C

Your Answers: A | C

Question 11

Single Correct Option, +2.00, -1.00

Scenario:

Joho Limited, a firm in the digital media and entertainment domain, has gaming zones in different locations. Due to growth in business, the firm decided to use relational databases to store customer information, product information, and day to day transactional information.

Question: "A specific requirement requires, an attribute in the Game table has to refer to the GameId attribute present in the same table. Such a reference would not be possible and it is decided that the requirement is unfeasible."

Choose whether the above decision of the requirement is True or False with the correct reason.

A. True. An attribute in a table/relation can reference another attribute in the same table/relation

B. False. An attribute in a table/relation can reference another attribute in the same table/relation and this is called Composite Foreign Key

C. True. An attribute in a table/relation cannot reference another attribute in the same table/relation

D. False. An attribute in a table/relation can reference another attribute in the same table/relation and this is called Self Referencing Foreign Key

✔ Your Answer is Correct

Correct Answers: D

Your Answers: D