

HALF YEARLY EXAMINATION, 2024-25

INFORMATION TECHNOLOGY

Time – 3:00 Hrs.

Class – XII

M.M. : 60

Date – 14.09.2024 (Saturday)

Name of the student _____ Section _____

General Instructions:

- Please read the instructions carefully.
- This Question Paper consists of **24** questions in two sections – A and B.
- Section **A** has MCQ / Objective type questions.
- Section **B** contains Subjective type questions.

SECTION A – MCQ/OBJECTIVE TYPE QUESTIONS (30 MARKS):

- This section has 06 questions. Attempt all the questions.

SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- This section contains 18 questions.
- Do as per the instructions given.

SECTION – A

(Multiple Choice Questions / Objective Type Question)

Q.1 Answer ANY 4 out of the given 6 questions on Employability Skills. (1x4=4)

- (i) Which of these sentence is punctuated correctly?
(a) Where are you going. (b) I have a pen a notebook and a pencil.
(c) I am so happy to see you? (d) This is my house.
- (ii) _____ is a state of feeling upset, annoyed and hopeless.
- (iii) Which of these sentences has/have both indirect and direct objects?
(a) I am working on a presentation. (b) She bought a blue pen.
(c) The girls played cricket. (d) He wrote a letter to his sister.
- (iv) _____ symbol is displayed when the column in Calc is not wide enough to display the value.
- (v) Ravi has feelings of emptiness, abandonment and suicide. What type of personality disorder is this?
(a) Borderline (b) Dependent (c) Avoidant (d) Obsessive
- (vi) A _____ is an arrangement of cells in a vertical (standing) manner.

Q.2 Answer ANY 5 out of the given 7 questions. (1x5=5)

- (i) _____ is not an aggregate function
(a) Sum() (b) Count() (c) Round() (d) Avg()
- (ii) Pariniti wants to remove all the records from table "Customer" with fields (Cust_ID,C_name, Amount, Dues, Address) whose dues status is **Clear**. Select the query that will solve the purpose:

- (a) Delete * from Customer where dues='Clear';
 - (b) Remove * from Customer where dues='Clear';
 - (c) Drop Customers where dues='Clear';
 - (d) Delete from Customer where dues='Clear';
- (iii) DEITY stands for:
- (a) Department of Electrical and Information Technology
 - (b) Department of Electronics and Information Technology
 - (c) Department of Electronics and Informatics Technology
 - (d) Department of Electrical and Informatics Technology
- (iv) Jagriti wants to display the list of all the students in relation 'Student' with fields (Admno, Name, DOB, DOJ, City, Class, FatherName, MotherName) whose city name ends with letter 'd' in decending order of Admno. Identify the correct query to do the same from the following:
- (a) Select * from Student where City like '%d' order by Admno;
 - (b) Select * from Student where City like 'd%' order by Admno;
 - (c) Select * from Student where City like '%d' order by Admno desc;
 - (d) Select * from Student where City like 'd%' order by Admno desc;
- (v) Once the database is created, you can check it in the list of databases that currently exist on the server by using _____command.
- (vi) An application that can be accessed via web browser, over a network connection is called _____.
- (vii) They are programmers who code in high level languages.
- (a) Application programmers
 - (b) System analysts
 - (c) End users
 - (d) Database Administrators

Q.3 Answer ANY 6 out of the given 7 questions.

(1x6=6)

- (i) The process of development of web based applications is broadly categorized in _____ phases.
- (ii) _____ are real time lectures, where users participate in the lecture, may ask questions and get their queries answered.
- (iii) In MySQL, while applying condition on a group, instead of WHERE clause _____ clause is used.
- (iv) In MySQL by default, the result of an order by clause is always displayed in _____ order.
- (v) For online booking of train ticket using the Indian Railway Catering and Tourism Corporation (IRCTC) online portal, Identify the website of IRCTC Portal.
 - (a) irctc.gov.in
 - (b) irctc.in
 - (c) irctc.nic.in
 - (d) irctc.co.in
- (vi) Database can be removed by using _____ command.
- (vii) The _____ command is used to view the structure of a table.
 - (a) Describe
 - (b) Select
 - (c) Show
 - (d) Display

Q.4 Answer ANY 5 out of the given 6 questions.

(1x5=5)

- i) This website includes sites of different states and union territories of India, sites of government departments like judiciary and legislature. Which is this website?
(a) goirectory.nic.in (b) godirectory.nic.in (c) indiagov.in (d) india.gov.in
- ii) The main purpose of this constraint is to check that data entered in one relation is consistent with the data entered in another relation. Name the constraint.
- iii) Choose the correct MySql command to display 5% of salary as allowance
(a) select salary +0.5 as allowance from teacher;
(b) select salary *0.05 as allowance from teacher;
(c) select salary *0.5 rename as allowance from teacher;
(d) None of these
- iv) Suppose you are asked to display all the names which have 'k' as their second character then which query pattern you will use?
(a) __k%; (b) _k_; (c) _k%; (d)_%k;
- v) Naman studies in a government school and is a very intelligent child. He is preparing for his examinations. He noticed that he lost his prescribed textbook due to renovation work at his home. Help him to identify the website from where he can download his NCERT notebook for free.
(a) ncert.org (b) w3schools.com (c) ncert.nic.in (d) edx.org
- vi) Write the full form of NeGP.

Q5. Answer ANY 5 out of the given 6 questions.

(1x5=5)

- i) Which of the following syntax you will use to rename the table name?
(a) ALTER TABLE table_name RENAME TO new_table_name;
(b) RENAME new_table_name;
(c) ALTER table_name RENAME new_table_name;
(d) None of these
- ii) Rashid is maintaining various records of his sales in different independent files. His boss asked him to give a compiled report of his work. As all the data is stored in independent files, it became difficult to access information out of multiple files. He is facing the problem of
(a) Lack of data integration (b) Data storage
(c) Lack of data availability (d) Data deletion
- iii) Finding of Bugs and Fixing them happens in _____ phase.
- iv) _____ is a collection of raw facts, which have not been processed to reveal useful _____.
(a) Data, information (b) Database, Information
(c) Information, data (d) Information, database
- v) Mayank works in a company. He identifies requirements of the end users and develops specifications to interact with the database. He plays a major role in database designing. He is a -
(a) Programmer (b) End User (c) Database Administrator (d) Systems Analyst

- vi) Creating a strong password is vital. A strong password has:
- (a) 6-8 Alphanumeric characters
 - (b) Special symbols
 - (c) Only numbers
 - (d) Both a and b

Q6. Answer ANY 5 out of the given 6 questions.

(1x5=5)

- i) _____ clause is used to remove duplicate values.
- ii) _____ is the process of achieving the objectives of the project through a set of activities defined within the time frame, to produce the end result.
- iii) State True or False
The data connectivity is established between the Front-End interface and Back-End Database in the implementation phase.
- iv) Roma is booking a railway ticket using an online ticketing website makemytrip.com. When she reached to catch the train she found that she left the ticket at her hotel. What should she do?
- (a) She can't board the train.
 - (b) She should book a new ticket at station.
 - (c) She should go back and get the ticket.
 - (d) She can download the e-ticket from the website.
- v) Identify the limitations of a database.
- (a) Improved security
 - (b) User friendly
 - (c) Reduced redundancy
 - (d) Security and recovery overheads
- vi) Which SQL keyword is used to retrieve a maximum value?
- a) TOP()
 - b) MOST()
 - c) UPPER()
 - d) MAX()

SECTION - B

(SUBJECTIVE TYPE QUESTIONS)

Answer ANY 3 out of the given 5 questions on Employability Skills.

(2x3=6)

- Q.7 Write the full form of RESPECT.
- Q.8 Write the steps to sort data in LibreOffice Calc.
- Q.9 Differentiate between Intrinsic motivation and Extrinsic motivation.
- Q.10 Write the steps to protect your spreadsheet in LibreOffice Calc?
- Q.11 Write the steps to overcome personality disorders.

Answer ANY 3 out of the given 5 questions.

(2 x 3 = 6)

- Q.12 What are the data types used in MySQL. (Any four)
- Q.13 What is SQL?
- Q.14 Explain any two operations performed on database.
- Q.15 Give two benefit of online reservation.
- Q.16 REEMA wants to arrange names of students in alphabetical order in the student table. Give the MYSQL command to create a sorted list.

Answer ANY 2 out of the given 3 questions.

(3x2=6)

- Q.17 Mention any three key characteristic of a project.
- Q.18 (a) Rina wants to display the details of employee whose name starts from s. Find errors in given MySQL command and write the correct statement.
select* from employee where name like *s;
(b) Classify them into DDL or DML commands
Update, delete, create , alter
- Q.19 (a) Name two e-commerce websites.
(b) What are the challenges in online learning? (Any two)

Answer ANY 3 out of the given 5 questions.

(4 x 3=12)

- Q.20 Define the following terms in respect to Relational Database.
(a) Relation (b) Domain (c) Degree (d) Cardinality
- Q.21 Write any four precautions while Performing Online Transactions.
- Q.22 Consider the table SALES and write the SQL commands for the following statement:

ECODE	NAME	ADDRESS	SALARY	AREA
E01	Nikita	Delhi	5000	East
E02	Aaron	Gurgaon	7000	East
E03	Vani	Noida	3450	West
E04	Rishab	Delhi	6000	North
E05	Roshini	Delhi	8000	North

- (a) To display the name and salary for east area.
(b) To display the highest salary.
(c) Update the salary by 10% for all the employees.
(d) Delete the record E04.
- Q.23 What are the advantages of Web-based applications?
- Q.24 Consider the following table SHOP and write the SQL commands for the following statement:

ID	ITEM	PRICE
1	Rice	75
2	Dal	160
3	Sugar	45
4	Wheat	55
5	Besan	110
6	Biscuit	35
7	Oil	145

- a) Create a table SHOP.
b) Display details of all item in the descending order of Price
c) Display Item whose price is between 40 and 100
d) Add a new column Quantity datatype as int and size(4) to the table SHOP.

