Sample Paper 01

INFORMATION TECHNOLOGY (402)

Class X Session 2026-27

Time: 2 Hours **Max. Marks: 50**

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of 21 questions in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
5. All questions of a particular section must be attempted in the correct order.
6. SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):
   i. This section has 05 questions.
   ii. Marks allotted are mentioned against each question/part.
   iii. There is no negative marking.
   iv. Do as per the instructions given.
7. SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):
   i. This section has 16 questions.
   ii. A candidate has to do 10 questions.
   iii. Do as per the instructions given.

SECTION - A

OBJECTIVE TYPE QUESTIONS

1. Answer any 4 out of the given 6 questions based on Employability Skills

(i) Ramesh turned on his computer to complete an assignment. As the computer started, the operating system loaded into the main memory from the hard disk, enabling him to use the system. What is this process called?

(a) Uploading (b) Booting

(c) Starting (d) Downloading

(ii) Priya, a student under exam pressure, feels irritable, struggles with sleep, and is often tired. However, she shows no signs of fever. Which of the following is not a symptom of stress?

(a) Irritability (b) Insomnia

(c) Fatigue (d) Fever

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(ii) Ravi is learning about various types of entrepreneurship like social, agricultural, and women-focused. However, he wonders if leadership is considered a type of entrepreneurship. Which of the following is not a type of entrepreneurship activities?

(a) Social (b) Agricultural

(c) Women (d) Leader

(iv) The drive within you that compels you to complete tasks is

(a) Self-motivation (b) Self-regulation

(c) Self-awareness (d) Self-sufficient

(v) A manager is addressing his team about a new project. During the discussion, some team members struggle to understand because the manager uses complex jargon and technical terms. However, other factors like clear messaging and active listening help the team grasp some aspects. Which of the following is a barrier to effective communication?

(a) Use of jargon and technical terms (b) Clear and concise messaging

(c) Active listening (d) Mutual understanding

(vi) What is the role of green skills in waste management?

(a) Encouraging unsustainable disposal methods

(b) Promoting recycling and composting practices

(c) Increasing landfills and waste accumulation

(d) Disregarding the concept of resource conservation

2. Answer any 5 out of the given 6 questions

(i) While preparing a project report, Riya decided to use a ready-made template in her word-processing software. She noticed that the template contained sample sentences and guiding notes that were meant to be replaced with her own information. All this placeholder text was easily identifiable because it was surrounded by specific symbols. Based on this situation, what are placeholder texts in a template usually surrounded by?

(a) Arrow (b) Brackets

(c) Data source (d) Commas

(ii) A school database links the Students table with the Library Records table by using the student's unique ID. The Library Records table includes an attribute that gets its value from the primary key of the Students table. Based on this, which attribute derives its value from another table's primary key?

(a) Primary key (b) Foreign key

(c) Alternate key (d) None of these

(iii) During a fire safety briefing in an office building, staff members were warned that elevators can malfunction or trap people during a fire. They were advised to use the safest route designed for quick evacuation. Based on this situation, what should be used during such emergencies?

(a) Office space (b) Staircase

(c) Washroom (d) None of these

(iv) Solve option under Tools menu amounts to a more elaborate form of _____. The difference is that the Solver deals with equations with multiple _____.

(a) Unknown variables, goals seek
(b) Variables, equation
(c) Goal seek, unknown variables
(d) Subtotal, goal seek

(v) In a computer class, students learn that databases store large amounts of data, allow easy updates, sorting, querying, and generate reports, unlike other tools like spreadsheets or graphic editors. What is a key ability of databases?

(a) Store a large amount of data in a structured format, easy update, sort query, production of reports.
(b) Spell check, perform calculations, library of mathematical functions, replication.
(c) Rotate images, copy and paste, fill scale.
(d) None of the above

(vi) In the Load Style dialog box, option loads the paragraph and the character styles from the selected document into the current document.

(a) Page
(b) Paragraph
(c) Overwrite
(d) Text

3. Answer any 5 out of the given 6 questions

(i) Which tab is used to share the worksheet data?

(a) Home
(b) Review
(c) Insert
(d) Layout

(ii) Editing Custom Shapes feature allows _____ of small segments of a drawing.

(a) Shaping
(b) Reshaping
(c) Rehearse
(d) None of these

(iii) Rahul is working on a project that requires transferring large files between computers on the same network. His teacher explains that there is a specific protocol designed for this purpose, making file transfer efficient and reliable. What is used to transfer files between computers on a network?

(a) Web server
(b) FTP
(c) Multimedia
(d) Web browser

(iv) **Assertion (A) :** A tuple in RDBMS represents a single record in a table.
Reason (R): It contains related data values based on the table schema.

(a) Both A and R are true, and R is the correct explanation of A
(b) Both A and R are true, but R is not the correct explanation of A
(c) A is true, but R is false
(d) A is false, but R is true

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(v) _____ Function takes data from a series of worksheets or workbooks and summaries it into a single worksheet that you can update easily.

(a) Summation (b) Data Consolidation

(c) Data Format (d) Data Chart

(vi) Which of the following is not a spreadsheet software?

(a) VisiCalc (b) MS-Excel

(c) Writer (d) Lotus 1-2-3

4. Answer any 5 out of the given 6 questions

(i) By dragging any _____ handle you can increase or decrease the _____ of the image diagonally.

(a) Corner, size (b) Side, quality

(c) Top, depth (d) Corner, quality

(ii) Wireless broadband can be

(a) Mobile (b) Fixed

(c) Both (a) and (b) (d) None of these

(iii) _____ can deal with multiple variables as the goal seek is used to manipulate one variable cell.

(a) Solver (b) Goal Seek

(c) Scenario (d) What-if

(iv) _____ Ensure that all the documents have a standard layout, look and feel.

(a) Graphics (b) Layout

(c) Properties (d) Templates

(v) To join the Internet, the computer has to be connected to a

(a) Internet Architecture Board (b) Internet society

(c) Internet Service Provider (d) None of these

(vi) A relational database is a collection of

(a) attributes (b) tables

(c) records (d) fields

5. Answer any 5 out of the given 6 questions

(i) Which of the following is an AutoShape?

(a) Line (b) Circle

(c) Curve (d) All of these

(ii) _____ Determines the range of field values.
(a) Field Name
(b) Data Type
(c) Field Size
(d) Description

(iii) Which type of hazard can cause skin irritation, illness or breathing problems?
(a) Chemical hazard
(b) Biological hazard
(c) Slipping hazard
(d) None of the above

(iv) Which of the following is/are TCL commands?
(a) COMMIT
(b) SAVE POINT
(c) ROLL BACK
(d) All of the above

(v) If you have unsafe and unhealthy workplace, there will be higher days lost and will have higher
(a) Employee satisfaction
(b) Productivity
(c) Stress levels
(d) None of these

(vi) Rajat has received a spreadsheet, which is reviewed by his subordinates Puneet, Kavya and Aman, who made some corrections in it. Before Rajat shared the spreadsheet with his subordinates, he has activated the track changes feature. Which of the following option he should use now to keep some of the changes made by them?
(a) Accept and reject changes
(b) Overwrite and keep changes
(c) Both (a) and (b)
(d) None of the above

SECTION - B

SUBJECTIVE TYPE QUESTIONS

Direction for Q 6-Q 10 : Answer any 3 out of the given 5 questions on Employability skills. Answer each question in 20-30 words.

6. What is fatigue related stress? Why is it difficult to avoid?

7. What is the contribution of the entrepreneurs in the execution of Government policies?

8. Ravi's team meeting lacked preparation, leading to confusion and unclear messaging about their roles. In what way does inadequate planning hinder effective communication?

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9. How can individuals acquire green skills?

10. Aman recently purchased a new laptop but noticed it could not function without specific software that manages hardware and software resources. His friend explained that this software acts as an essential interface between the user and the computer, allowing the system to operate effectively. What is the software mentioned in the paragraph, and what does it do?

Direction for Q 11-Q 16 : Answer any 4 out of the given 6 questions in 20-30 words each.

11. What is the difference between absolute and relative hyperlinks as used in Calc?

12. What do you mean by template?

13. Elucidate the following terms:

(i) PAN
(ii) WiMAX

14. During a database design session, Priya learns that certain keys help maintain relationships between tables. The teacher explains that one specific key enforces referential integrity by linking data across different tables. What is the role of a foreign key in a database management system (DBMS)?

15. State any two practices for internet security.

16. Write the steps to insert a record in a Datasheet View.

Direction for Q 17-Q 21 : Answer any 3 out of the given 5 questions in 50-80 words each.

17. Riddhima is working on a project that involves sending letters to multiple recipients. She wants to use a word processor to create mailing labels for each recipient efficiently. She seeks answers to understand the concept and the steps involved in preparing and printing these labels.

(a) What is a mailing label?
(b) What are the ways to prepare and print mailing labels?

18. Shubham is a student learning about database management systems (DBMS). He wants to understand the purpose of DBMS and its practical uses in real-world applications. He wants to know about the following:

(a) The purpose of DBMS
(b) Any two uses of DBMS

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19. Shreya is analyzing a database table. The table contains information about various products, their quantities, costs, and the cities where they are available. She needs to perform certain tasks based on this table:

TABLE: PRODUCT					
S_NO	**P_Name**	**S_Name**	**Qty**	**Cost**	**City**
S1	Biscuit	Priyagold	120	12.00	Delhi
S2	Bread	Britannia	200	25.00	Mumbai
S3	Chocolate	Cadbury	350	40.00	Mumbai
S4	Sauce	Kissan	400	45.00	Chennai

(i) How many fields and records are there in PRODUCT table?

(ii) Write SQL queries for the following:

(a) Display all Products whose Qty is between 100 and 400.

(b) Display S_Name, P_Name, Cost for all the Products whose Qty is less than 300.

(c) Display all the records alphabetically by S_Name.

20. Rita is currently working on a spreadsheet and is trying to manage a large amount of data efficiently. She has come across different tools that can help her organize and view the information more easily, but she is not completely sure how they work. As part of her learning process, she wants to understand the purpose and use of certain important features available in spreadsheets. Help Rita by explaining the use of the following terms:

(a) Quick Sort

(b) Filtering Data

21. Rahul recently ordered several stationery items from an online shopping website. In order to complete his purchase and confirm the order, he now needs to make an online payment. Since he is still learning how digital transactions work, he has a few doubts about the process and wants clear explanations before proceeding. Help him by answering the following queries :

(i) Suggest any two options that he can use to make payment of his bill on the online shopping website.

(ii) Name any 2 situations where online shopping could be useful.

(iii) Name any 2 popular online shopping websites.

(iv) Write full form of COD in reference to online shopping.

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