Sample Paper 09

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) Raj is reflecting on what might prevent him from convincing others to support his startup goals. In which situation an entrepreneur will not be able to convince his fellow beings to achieve his goals?

(a) Low self-confidence (b) Innovative ness

(c) Risk-taking (d) None of the above

(ii) While preparing her classroom report, Mehak wanted to make sure her writing was easy for everyone to understand. Her teacher advised her to focus on clarity and avoid unnecessary complexity. Based on this, which of the following is an example of effective written communication?

(a) Using excessive jargon and technical terms

(b) Writing lengthy paragraphs without any breaks or bullet points

(c) Using concise and clear language

(d) Including personal opinions and biases

(iii) Ramesh is learning about computer systems and wants to understand how multiple tasks can run at the same time without affecting each other's performance. Provides process and memory management services that allow two or more tasks, jobs or programs to run simultaneously.

(a) Multi- tasking (b) Multi- threading

(c) Multi- processing (d) Multi- computing

(iv) Priya is working on improving her personal development skills. She is focusing on understanding her own emotions and behaviours to enhance her growth and interactions with others. Which term refers to our knowledge and understanding of ourselves?

(a) Self-awareness (b) Motivation

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

(v) Which of the following is an example of a green skill?

(a) Traditional farming techniques

(b) Renewable energy installation and maintenance

(c) Conventional manufacturing processes

(d) Non-recyclable waste disposal methods

(vi) Riya has been feeling overwhelmed with her upcoming exams. She is noticing physical symptoms and is wondering which of them may be related to stress. Which one of the following is not a symptom of stress?

(a) Increased sweating (b) Dry mouth

(c) Cold hands or feet (d) None of the above

2. Answer any 5 out of the given 6 questions

(i) Neeta is planning to take a car loan to buy a new car. But she is not sure about the payback time, i.e. whether to pay it back in 5 or 6 years considering that her monthly fuel cost will also increase. In such cases, which of the following features of spreadsheet can she use to get an idea about it?

(a) Consolidation (b) Macros

(c) Templates (d) What-if analysis

(ii) While preparing a sales report, Arjun wanted to arrange the list of products either alphabetically or according to their prices. His teacher explained that spreadsheets provide a feature that lets users change the order of data based on selected criteria. Based on this situation, Which of the following allows you to reorder data?

(a) Sorting (b) Filtering

(c) Scenario (d) Custom sorting

(iii) The _____ SQL statement is used to make a query or retrieve data from a table in a database.

(a) INSERT (b) UPDATE

(c) SELECT (d) REVIEW

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(iv) The small area network created around a blue-tooth device is called _____.

(a) LAN (b) PAN

(c) WAN (d) MAN

(v) Which of the following is not an Auto Shape?

(a) Line (b) Circle

(c) Curve (d) ClipArt

(vi) A _____ is a temporary connection that uses the Public Switched Telephone Network (PSTN) to connect to the Internet.

(a) Broadband connection (b) Wireless connection

(c) Dial-up connection (d) None of the above

3. Answer any 5 out of the given 6 questions

(i) During a computer session, Rishi learned that a special software program is responsible for creating databases, storing large amounts of information, and allowing users to update or retrieve data whenever needed. His teacher explained that this program is commonly known by a three-letter abbreviation. Based on this, DBMS stands for:

(a) Digital Base Management System (b) Data Build Management System

(c) Database Management System (d) Database Management Service

(ii) During a school IT audit, the network administrator explained to students how the institution protects its internal network from unwanted or unsafe traffic coming from outside sources. He said that a special device is placed at the entry point of the network to check and filter all incoming and outgoing data. Based on this A _____ filters data traffic at a network boundary.

(a) Bridge (b) Switch

(c) Gateway (d) Hub

(iii) Template includes a text space that is surrounded by brackets. It is called a _____.

(a) Margin (b) Placeholder

(c) Data source (d) Track changes

(iv) Neha is adjusting a custom graphic for her presentation and wants to modify certain segments. Editing Custom Shapes feature allows _____ of small segments of a drawing.

(a) Shaping (b) Reshaping

(c) Rehearse (d) None of these

(v) Key field is a unique identifier for each record. It is defined in the form of _____.

(a) Rows (b) Columns

(c) Tree (d) Query

(vi) What is the name given to a combination of two cell references?

(a) Relative reference (b) Absolute reference

(c) Mixed reference (d) None of the above

4. Answer any 5 out of the given 6 questions

(i) In packet based networks, the message gets broken into small _____.

(a) Data packets (b) Data frame

(c) Chunk (d) None of these

(ii) While preparing her project, Aisha didn't want to design each page from scratch. Instead, she selected a ready-made file that already contained layout, formatting, and structure. Her teacher explained that such a file serves as a model for creating new documents. Based on this, a _____ is a document model that you use to create other documents.

(a) Anchoring (b) Alignment

(c) Template (d) None of these

(iii) While working on a spreadsheet, Kabir wanted to insert a hyperlink that would automatically create a new worksheet when clicked. He opened the Hyperlink dialog box and noticed several hyperlink types, including one specifically meant for generating a new sheet within the workbook. Based on this, which option creates a new worksheet?

(a) New document (b) New file

(c) New worksheet (d) New data

(iv) Which of the following allows you to display the specific data?

(a) Arranging (b) Filtering

(c) Scenario (d) Custom sorting

(v) While learning database design, Mehak studied how two tables can be linked to each other. She discovered that sometimes one record matches only one record, sometimes one record matches many, and sometimes many records match one. These connections are written in forms such as 1:1, 1:n, and n:1. Based on this, these are examples of different types of _____.

(a) Relations (b) Databases

(c) Data (d) Query

(vi) Which of the following refers to an application program that is not installed on a user's local computer but is instead stored on a remote server, accessed through a web browser, and delivered over the Internet for performing various online tasks

(a) **Web application :** an online software program accessed through the Internet using a browser

(b) **System application :** a software program designed to manage or support the computer's internal operations

(c) **Internet application :** a general software tool that uses the Internet to perform different online functions

(d) **None of these :** indicates that none of the above options correctly describe the given statement

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5. Answer any 5 out of the given 6 questions

(i) While editing an image in her document, Meena clicked on the Picture Toolbar to adjust brightness and contrast. Her teacher informed her that from this toolbar, she could also open two additional toolbars that provide more graphic editing and color adjustment options. Based on this, the two toolbars that can be opened from the Picture Toolbar are:

(a) Edit picture, Color picture
(b) Format, drawing
(c) Graphic Filter toolbar, Color toolbar
(d) Floating toolbar, Color toolbar

(ii) A _____ refers to a cell or a range of cells on a Worksheet and can be used to find the values or data that you want formula to calculate.

(a) Cell reference
(b) Block
(c) Sheet reference
(d) Auto fill

(iii) URL is the _____ for a website or a web page.

(a) Web address
(b) Website
(c) Web page
(d) Both (a) and (c)

(iv) _____ is used to define the structure of your tables and other objects in the database.

(a) DDL
(b) DML
(c) DCL
(d) None of these

(v) Rajiv has created an employee table and made Emp_No, as the primary key, so that it can accept only unique values for each record. At the same time, he wants to have one more field that can behave like a primary key. Which of the following types of key can serve the purpose?

(a) Foreign key
(b) Composite key
(c) Unique key
(d) None of these

(vi) Suraj wants to know the sequence of steps used to open the Templates dialog. Answer to his query.

(a) File → New → ext Document
(b) File → New → Templates
(c) Format → Group → Group
(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. Rohit is working on a research project about sustainable development. He is exploring ways governments can actively promote the development of green skills among individuals and organizations. Based on your understanding, explain how governments can achieve this.?

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7. Name two basic elements of entrepreneurship.

8. How does feedback contribute to improving communication skills?

9. Ananya has noticed that her computer is running slower than usual. Her teacher suggested using Disk Defragmenter to improve performance. Based on this, explain the use of Disk Defragmenter.

10. What do you mean by environmental stress?

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

11. What do you mean by Open Office Calc.

12. How to add a comment in a word processor application?

13. Mention any two components of a database.

14. Riya is working on a project in which she needs to organize a large dataset in her worksheet. Her mentor advised her to sort the data for better analysis. Based on this, write the steps to sort the data in a worksheet.

15. Define the following :

(i) Peer-to-Peer architecture
(ii) Internet

16. When the computer network uses telephone lines as communication channel, then MODEM is used as a data communication device. Now, explain the working of MODEM.

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

17. Arjun is preparing for a database management competition and needs clarity on some concepts related to databases. Help him answer the following questions:

(i) Mention any two databases.
(ii) Define different forms of a database.
(iii) What is an attribute whose value is derived from the primary key of some other table?
(iv) Define the SELECT command.

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18. Manisha has completed her project work and organized it neatly using a word processor. To make her document well-structured and easy to navigate, she created a Table of Contents. Now she wants to review the exact steps involved in creating it properly and also understand how to remove it whenever needed. To guide her clearly, Manisha had created a Table of Contents of the project done by her. Tell her the different steps to do the following:

(a) Creating a TOC
(b) Deleting a TOC

19. Consider the following table ITEM:

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 records and fields in the table ITEM?
(ii) Write the SQL queries to
  (a) Display all the products whose quantity in between 100 and 350.
  (b) Display the data for all products sorted by their quantity.
  (c) To list S_Name, P_Name, Cost for all the products whose quantity is less than 400.

20. Simran has recently started exploring advanced features in a spreadsheet application and discovered that macros can help automate repetitive tasks. She wants to save time by recording a macro that can repeat a series of actions with a single command, but she is not sure how to begin the process. To help her use this feature effectively, Simran wants to add a macro in a spreadsheet application.

21. Riya is a student of class X and has recently started learning about computer networks in her ICT textbook. As she reads the chapter, she comes across various network devices that help computers communicate and share data. Although the topic interests her, she finds some terms unfamiliar and wants a clearer understanding of how these devices function in a network. To help her strengthen her concepts and prepare better for exams, Riya had heard about network devices. She had some queries. Help her by answering her queries:

(i) What is network device?
(ii) Name any two network devices.
(iii) Which device is used as proxy server?
(iv) What is the basic function of repeater?

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