Sample Paper 05

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) Amit is preparing for a major presentation at work. He feels a rise in tension and nervousness as the day approaches. This reaction helps him stay focused and prepare better for the upcoming challenge._____ is our body's way of responding to any kind of demand.

(a) Stress (b) Self-regulation

(c) Self-motivation (d) All of these

(ii) Manoj has been feeling overwhelmed with his work deadlines and personal responsibilities. He often feels tense and worried, which affects his ability to focus and relax. Stress is identified as a condition in which a person is _____

(a) Tensed (b) Worried

(c) Relaxed (d) Both (a) and (b)

(iii) Which of the following is a problem related to sustainable development?

(a) Overconsumption and waste production
(b) Efficient use of resources
(c) Promotion of renewable energy
(d) Conservation of biodiversity

(iv) During a computer awareness session, Neha learned that viruses can easily harm a system if proper safety steps are not followed. Her teacher asked her to identify the action that actually helps protect a computer instead of putting it at risk. Based on this, which measure protects a computer from viruses?
(a) Sharing password with friends
(b) Allow anyone to use your device
(c) Use Antivirus
(d) Leave computer without logging out

(v) Entrepreneurs constantly look for opportunities to improve processes and create value in the business environment. Their ability to introduce fresh ideas and adapt to changing market demands is considered a key factor in economic growth. Innovation of an entrepreneur includes
(a) Division of work
(b) Opening new markets
(c) Introducing new products
(d) Both (b) and (c)

(vi) Good communication requires paying attention to the speaker. Active listening helps improve understanding. What is the purpose of active listening?
(a) To interrupt the speaker and share your own thoughts
(b) To fully understand the speaker's message and respond appropriately
(c) To ignore the speaker and focus on other tasks
(d) To dominate the conversation and assert your authority

2. Answer any 5 out of the given 6 questions

(i) While learning to work with a database, Arjun explored different components such as tables, queries, forms, and reports. His teacher then asked him to identify which item listed does not belong to the standard set of database objects. Based on this, which of the following is NOT an object of a database?
(a) Report
(b) Forms
(c) Query
(d) Functions

(ii) While creating her project report, Riya used a ready-made format that already contained layout, styles, and structure. Her teacher explained that such a file serves as a model from which new documents can be created. Based on this, a template is a _____ document.
(a) Blueprint
(b) Printed
(c) Suggested
(d) Copied

(iii) While preparing a mail merge, Kavita opened the data source that contained details of all recipients. She noticed that the information was arranged in rows and columns, making it easy to sort and use in the document. Based on this, the data in a data source is organised in:
(a) Text form
(b) Image form
(c) Tabular form
(d) Paragraph form

(iv) **Assertion (A) :** Emp_set is not a good choice for a field name in a database.
Reason (R) : Field names should clearly describe the type of data stored, ensuring easy understanding and accurate data handling.

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(a) A and R are true, and R is the correct explanation of A

(b) 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

(v) Shalini is working in a school. She is the class teacher of VIII B. It is the time to enter the subject marks and grades of all students of her class in a worksheet. While entering the marks and grades, she has to scroll up again and again to the row where all subject names are entered, in order to avoid any mistakes in her entries. This process is consuming a lot of her time. Help her by letting her know about one such tool by which she can fix the field rows from the following and continue with her work without wasting much time.

(a) Fix row (b) Fix column

(c) Freeze panes (d) Freeze all

(vi) Which of the following is an application program that is stored on a remote server and delivered over the Internet?

(a) Web application (b) System application

(c) Internet application (d) None of the above

3. Answer any 5 out of the given 6 questions

(i) Meena was formatting her project report and wanted to reuse her own customized style settings—like specific fonts, colors, and spacing—throughout the document. When she opened the style list, she noticed a section that showed the styles she had personally created. Based on this situation, which statement correctly describes a custom style?

(ii) Aanya is making a table in Database to store data of all the employees working in her organisation. She has decided on the various information that she needs to store in that table. She also has to have a field in which only unique data can be entered. Out of the given fields suggest the best field suitable that can be used as a primary key, so that it can accept only unique data.

(a) Emp_name (b) Emp_dept

(c) Emp_number (d) Emp_DOB

(iii) According to Open Office Calc which of the following is not a What-if analysis tool?

(a) Conditional formatting (b) Goal seek

(c) Scenarios (d) Solver

(iv) _____ Allows multiple users to view, edit and change in a spreadsheet.

(a) Opening (b) Reviewing

(c) Sharing (d) Collaborating

(v) A computer connected with a Local Area Network (LAN) allows multiple systems to link together within a limited area. Such a network improves communication and resource sharing among users in schools, offices, or labs. Computer connected with LAN

(a) Can work fast (b) Can go online

(c) Can E-mail (d) Can share information or peripheral devices

(vi) Grouping drawing object can be used for which of the following?

(a) Combining drawing objects as one (b) Re sizing

(c) Adding more drawing objects (d) None of these

4. Answer any 5 out of the given 6 questions

(i) The Show Changes dialog box has which of the following settings?

(a) Data (b) Comment

(c) Views (d) All of these

(ii) Manya has created a spreadsheet using Calc, to find the average of the values in a range of cells. She wants to use a function, so that it is calculated automatically and also she can copy the same formula for other range of cells. Which of these functions will give the correct result?

(a) AVG (b) Average

(c) Mean (d) None of these

(iii) _____ is an example of a text-based browser which provides access to the Internet in the text-only mode.

(a) Mozilla Fire fox (b) Lynx

(c) Internet Explorer (d) All of these

(iv) Reports present data in a readable format. Reports are generally used to show the data in _____ form.

(a) Printed (b) Chart

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

(v) The Internet lets users communicate and access digital information easily. It offers many services for learning, sharing, and connecting globally What can you do with the Internet?

(a) Exchange information with friends and colleagues.

(b) Access pictures, sounds, video clips and other media elements.

(c) Find diverse perspective on issues from a global audience.

(d) All of the above

(vi) Anila works in a Multi National Company (MNC) and needs to work online from home also. She requires fast Internet connection. Which type of Internet connection in your view would be best suited for her?

(a) Dialup (b) Broadband

(c) Both are suitable (d) None of these

5. Answer any 5 out of the given 6 questions

(i) Rishabh wants to make a professional resume. He tried many a times but the end result was not satisfactory as he was not knowing what all points should be there and that too in which order . Which one of the following writer would you suggest him, so that his problem is solved?

(a) Template (b) Form

(c) Worksheet (d) Format

(ii) If you have a safer and healthy workplace, there will be fewer days lost and it will have higher

(a) Employee satisfaction (b) Productivity

(c) Stress levels (d) None of the above

(iii) Goal Seek is also called as _____ is one of the What-if analysis tools that is available in Calc.

(a) Back-solving (b) Solver

(c) Forward-solving (d) Result analysis

(iv) When primary key constraint is applied on more than one column, then it is known as

(a) Composite primary key (b) Foreign key

(c) Composite foreign key (d) Connecting key

(v) Which data type is the most appropriate to store a short bio about an employee?

(a) Text (b) String

(c) Memo (d) Large text

(vi) While preparing a sales report in Calc, Rohan wanted his formula to automatically calculate totals from different parts of the worksheet. His teacher explained that formulas can work only when they point to specific cells or selected ranges. This pointing or identification helps the formula know exactly where to pick the data from. Based on this, what is used to refer to a cell or a range of cells so a formula can calculate the required values?

(a) Row (b) Column

(c) Autosum (d) Cell reference

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. Amit, a new user of Windows, is learning how to navigate his computer's desktop. He is curious about the various items on his desktop and wants to understand two key components for better navigation. Explain any two items of the Windows desktop.

7. What strategies can a communication sender use to overcome information overload as a barrier?

8. Why are green skills important?

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9. Ravi started a mobile app development company. He focuses on innovation, managing risks, and generating employment, making a significant contribution to the local economy. Explain the role and significance of entrepreneurs.

10. What happens during meditation that makes it a useful technique for managing stress?

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

11. Explain the purpose of a blog.

12. What are objects in a word processing software?

13. Mention any two operations that can be performed using macros in a spreadsheet.

14. A table named School (containing data of students of the entire school) is created, where each record consists of several fields including Admission No (Admission Number), Roll No (Roll Number), Name. Which field out of these three should be set as the primary key and why?

15. List any two advantages associated with networking.

16. What is the use of Auto Sum in a spreadsheet application, and how does this feature help users quickly perform calculations such as adding a range of numbers without manually entering formulas?

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

17. Lavish wants to know the following points about database.

(a) Definition of a Database Management System.
(b) Any two advantages of using database management system for school.

18. Consider the following table : Summer Camp.

Table : Summer Camp

Child ID	**First Name**	**Last Name**	**DOB**	**Gender**	**Group**
109	Vedansh	Gupta	30/06/10	M	2A
214	Mack	Tyagi	09/12/08	M	1B
115	Aditi	Thakur	13/04/09	F	1A
108	Vikrant	Chauhan	02/02/09	M	2A
141	Swati	Saini	06/05/10	F	2B
233	Vishakha	Tyagi	01/08/10	F	3A
274	Madhur	Gupta	06/03/10	M	3B

(i) How many fields and records are there in the table Summer Camp?

(ii) Write SQL queries for the following:

(a) Display all the record of table Summer Camp whose DOB is between 02/02/09 and 06/03/10.

(b) Display all the records having Gender F

(c) Display all the records according to the First Name.

19. Ojas has recently completed his project work in a word processor application, and he created a detailed Table of Contents to make his document easier to navigate. Now he wants to make changes in his project and ensure that the TOC reflects those updates correctly. He also wishes to know how to remove the TOC if needed in the future.

(a) Tell him the different steps to update the TOC

(b) Tell him the different steps to delete the TOC

20. In spreadsheet software, users often need to test how different input values can change the final results in a calculation. To make this easier, spreadsheets provide a feature that helps compare multiple situations without altering the main data. This tool is especially useful in planning, budgeting, and forecasting. With this in mind, explain the Scenario tool of a spreadsheet software.

21. Manya is currently learning about computer networks as part of her IT course. She has reached the topic of network topologies, which explains the different ways computers and devices can be arranged and connected within a network. While going through her textbook, she finds two very commonly used topologies—Star topology and Bus topology—but she is confused about how they differ in structure, connection method, and functioning. To help her build a clearer understanding for her exams, she wants a detailed explanation that also includes simple diagrams for better visualization. Explain to Manya the difference between Star topology and Bus topology with the help of suitable diagrams.

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