Sample Paper 06

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) Anil, an entrepreneur, launched a tech startup that provides innovative solutions, creates jobs, and benefits the community. From the following statements, which one is not the positive impact of entrepreneurship on society?

(a) Stimulates Innovation and Efficiency
(b) Creates jobs and Employment Opportunities
(c) Solves the problems of the society
(d) Discourages welfare of the society

(ii) Ravi started a mobile app development company. He focuses on innovation, managing risks, and generating employment, making a significant contribution to the local economy. Which of the following is an example of green building design?

(a) Constructing buildings with no regard for energy efficiency
(b) Using renewable materials for construction
(c) Increasing waste generation during construction
(d) Ignoring water conservation measures

(iii) Ravi has been practicing stress management techniques to cope with the pressure at work. By focusing on time management and relaxation, he feels more in control of his tasks and has a sense of accomplishment at the end of each day. Stress management infuses a sense of _____and accomplishment.

(a) Pressure (b) Control

(c) Threat (d) None of these

(iv) _____ Are the people who are too focused on what others think and they fail to focus on their internal matters.

(a) Seekers (b) Interceptors

(c) Gold diggers (d) Pleasers

(v) Hemraj works in a company that manages sensitive data. To protect the network, he installs a device that monitors and controls incoming and outgoing traffic, blocking access to unwanted sites. A _____ is a network security device that monitors incoming and outgoing network. It restricts access to unwanted sites.

(a) Fire-wall (b) Anti-virus

(c) Block sites (d) None of these

(vi) Effective communication is important in the workplace because it:

(a) Enhances personal relationships (b) Improves productivity and efficiency

(c) Reduces conflict and misunderstandings (d) All of the above

2. Answer any 5 out of the given 6 questions

(i) During a database workshop, Simran was asked to identify software that stores data in tables with rows and columns and supports relationships between them. Her instructor explained that only a relational database management system works this way. Based on this, which of the following is an example of an RDBMS?

(a) MongoDB (b) Windows registry

(c) Publisher (d) Oracle

(ii) While creating a table in a school database, Kavita had to choose a primary key that uniquely identifies every record. She reviewed several fields but realized that one of them could repeat for different entries and therefore would not work as a reliable unique identifier. Based on this situation, which of the following fields will NOT make a suitable primary key?

(a) A customer's account number (b) A date-field

(c) An auto number field (d) A student's admission number

(iii) While working on a budgeting sheet in Calc, Rohan wanted to find out what value he should enter to reach a specific final result. His teacher told him that Calc has a What-if analysis tool that changes the input automatically to get the desired output, and this method is commonly known by another name. Based on this, Goal Seek is also called _____.

(a) Back-solving (b) Solver

(c) Forward-solving (d) Result analysis

(iv) **Assertion (A) :** abc@mnc.co.inrepresents an e-mail address.
Reason (R) : An e-mail address consists of a username, the @ symbol, and a domain name.

(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

(v) Anil has applied a base style to various sections of his report. When he decides to modify the base style, he notices that all the sections using this style are updated automatically. If you choose styles, and then change the base style then all the _____ styles will change as well.

(a) Linked (b) Edited

(c) Copied (d) None of these

(vi) A _____ allows you to present data retrieved from one or more tables so that, it can be analysed and printed, if required.

(a) Report (b) Form

(c) Table (d) Query

3. Answer any 5 out of the given 6 questions

(i) While automating repetitive tasks in her document, Aanya created a macro to speed up her work. When she wanted to run the macro, she remembered that the option to execute it is found under a specific tab in her software. Based on this situation, which tab is used to run a Macro?

(a) Tools (b) Home

(c) Insert (d) Review

(ii) If you see in place of data in a cell, it means you need to _____ the cell width.

(a) Increase (b) Decrease

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

(iii) Ananya wants to delete an old template for her school project. She finds the option to delete by right-clicking on a template in a specific window. To delete a template, Right click on a template in the _____ window and select Delete.

(a) Templates (b) Design

(c) Template Design (d) None of these

(iv) Which tab of writer contains the Hyperlink option?

(a) File (b) Format

(c) Insert (d) Tools

(v) When a user inserts a new worksheet in spreadsheet software, the new worksheet will be inserted _____.

(a) At the end of sheet tab (b) In the beginning of sheet tab

(c) Next to active sheet (d) None of these

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(vi) To insert a symbol like © (copyright), you need to click on the _____ option of the Insert tab.

(a) Special Character (b) Character

(c) Equation (d) Header

4. Answer any 5 out of the given 6 questions

(i) Which of the following websites is not used for buying clothes?

(a) Nykaa (b) IRCTC

(c) Amazon (d) Myntra

(ii) A primary key field cannot be null, which also means that it cannot be _____.

(a) Invalid (b) Positive

(c) Alphanumeric (d) Empty

(iii) Which of the following is not a style type in Writer?

(a) Frame style (b) Image style

(c) List style (d) Character style

(iv) A group of computers connected together with the help of cables within an office building is called

(a) PAN (b) MAN

(c) WAN (d) LAN

(v) In the given formula, identify the type of reference and the cells that are passed as arguments.
= Average(A5, B5)

(a) Absolute reference; cells are-A5 and B5 (b) Relative reference; cells are-A5 and B5

(c) Relative reference; cells are-A5 to B5 (d) Absolute reference; cells are-A5 to B5

(vi) Which of the following is an application based instant messaging software?

(a) Google Talk (b) eBuddy

(c) Meebo (d) MSN Web Messenger

5. Answer any 5 out of the given 6 questions

(i) Information is the processed form of _____.

(a) Words (b) Data

(c) Sentence (d) Records

(ii) DBMS provides various key fields as

(a) Primary key and candidate key (b) Alternate key and foreign key

(c) Both (a) and (b) (d) None of the above

(iii) You can move a dockable window to a convenient position on the screen by holding down the _____ key and drag it by the title bar to where you want it docked.

(a) Ctrl (b) Alt
(c) Shift (d) Windows

(iv) Instant messaging service accepts instant messages from
(a) External sites (b) Internal sites
(c) Both (a) and (b) (d) None of the above

(v) _____ is the act of posting content on a blog.
(a) Edublog (b) Posting
(c) Blogging (d) Blogger

(vi) In order to use data from a worksheet, you need to use its _____ name.
(a) Alias (b) Representative
(c) Qualified (d) Quantified

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. Aman wants to learn skills that promote sustainability, like energy conservation and waste management, to contribute to a greener environment. How can green skills be acquired?

7. What role does non-verbal communication play in effective communication?

8. Write any two main advantages of an operating system.

9. Priya plans to start her own business and is learning about the key roles an entrepreneur plays. She is particularly interested in understanding how innovation and risk-taking contribute to entrepreneurial success. Describe the following functions of an entrepreneur:

(i) Innovation
(ii) Risk-Taking

10. How can we self-motivate ourselves for completing a task which appears to be too large or too complex to be done by us?

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

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11. How to create the reference with the mouse in Calc?

12. Explain the term relational database management system.

13. Describe the term wireless fidelity.

14. Differentiate between wired and wireless access. Give one example for each type.

15. Ramesh is working on a project that involves managing and interpreting large amounts of data. To make sense of this data, he is exploring how spreadsheet software can help him analyse trends and generate meaningful insights. What is data analysis in a spreadsheet software?

16. Write some features of spelling checker in Open Office Writer.

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

17. Ram wants to compress a picture. Write the steps through which he can do so.

18. Yuan is learning about database. But, he didn't understand the concept of field, records and table. Answer to him the following queries:

(i) How are fields, record and a table related to each other? Explain with the help of an example.
(ii) What are the main purposes of a database system?

19. Consider the following table: MASTER

Table : MASTER				
S. No.	**Name**	**Age**	**Department**	**Salary**
1	Shyam	21	Computer	12000
2	Shiv	25	Maths	15000
3	Rakesh	31	Hindi	14000
4	Sharmila	32	History	20000
5	Dushyant	25	Software	30000

(i) How many fields and records are there in the table MASTER?
(ii) Write the SQL queries to:
  (a) Display all the records according to Age.
  (b) Display Name and Department of the person having salary less thin 20000.
  (c) Display the Name of the person having age less than 30.

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20. Simran is learning how to analyze data in a spreadsheet and has come across a very useful tool called the SUBTOTAL() function. She realizes that it can perform multiple calculations, but she is unsure about how it works and how the function index numbers are used. To improve her understanding and prepare better for her exams, she asks for a clear explanation.

Answer the given questions for her.

(i) What is SUBTOTAL() function?

(ii) Names of any 5 functions with their function index number.

21. Reema has recently been appointed as an SME (Subject Matter Expert) in an IT-based company. As part of her induction training, she is expected to understand how to handle unexpected situations that may arise in the workplace. To help her become more aware and prepared, she needs clarity on certain basic concepts related to workplace safety. Explain the following to her:

(i) What is workplace emergency?

(ii) Name the workplace emergencies that may happen.

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