Sample Paper 04

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) Ankur, an aspiring entrepreneur, builds relationships with businesses in his industry to understand market trends and competition. An entrepreneur must form contacts with the _____ to analyse the market.

(a) Planning (b) Competitors

(c) Neighbours (d) None of these

(ii) In a professional setting, which communication channel is most appropriate for discussing complex or sensitive issues?

(a) Social media platforms (b) Face-to-face meetings

(c) Text messages (d) Voice mails

(iii) During a sudden emergency, Raj was faced with a dangerous situation. His body instinctively responded by increasing his heart rate and preparing him to either fight the threat or escape from it._____ stress is a result of body's response to deal with a dangerous situation or escape from it.

(a) Internal (b) Environmental

(c) External (d) Survival

(iv) Ananya, a manager, notices that some employees handle stress calmly, while others seem to become overwhelmed easily. After observing their behaviour over time, she realizes that their reactions are largely influenced by their personalities._____ plays a major role in reaction to stress.

(a) Personality (b) Positive attitude

(c) Behaviour (d) None of these

(v) Ravi encourages local youth to learn green skills, like solar panel installation and sustainable farming, helping them secure jobs and improve their income. How can green skills contribute to poverty reduction?

(a) By creating job opportunities in sustainable sectors

(b) By encouraging overconsumption of resources

(c) By promoting deforestation for economic growth

(d) By neglecting social and community development

(vi) An operating system that manages a group of independent computers and makes them appear to be a single computer is known as a _____ operating system.

(a) Real-time (b) Graphical

(c) Distributed (d) Multi- user

2. Answer any 5 out of the given 6 questions

(i) While entering information into a database, Neeraj noticed that each value—such as a student's name, age, or roll number—is stored separately in its own slot. He learned that each of these individual values represents a single piece of data. Based on this, which option refers to a single piece of data?

(a) Field (b) Table

(c) Record (d) Form

(ii) Alpana has made four spreadsheets containing marks of 5 subjects of all the students of her class. She has to prepare a sheet that contains the total marks of all the students of her class. Name the option that can be used to perform this task.

(a) Subtotal (b) Average

(c) Goal Seek (d) Scenario

(iii) During his computer class, Arnav wanted to open a website to check his assignments. His teacher explained that to request and display web pages from the internet, he must use a specific type of client software designed for this purpose. Based on this, which client software is used to request and display web pages?

(a) Web server (b) FTP

(c) Multimedia (d) Web browser

(iv) **Assertion (A) :** The File option in the Mail Merge dialog box allows users to save merged documents.
Reason (R) : The File option provides functions such as saving, printing, and sending documents after merging.

(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) While entering student details in a database, Ritu noticed that each record contained several smaller parts such as name, age, and class. She learned that each of these smaller parts is an individual sub-component of one complete entry. Based on this, a field is the individual sub-component of one _____.

(a) Record (b) Column

(c) Data (d) None of these

(vi) The default data type for a field is _____

(a) Char (b) Int

(c) Text (d) None of these

3. Answer any 5 out of the given 6 questions

(i) While designing a student database, Kunal needed a way to uniquely identify each entry so no two records could ever be confused. His teacher explained that this unique identifier is always created as a specific part of the table structure. Based on this, a key field is defined in the form of:

(a) Rows (b) Columns

(c) Tree (d) Query

(ii) While preparing her report, Meera updated the Table of Contents and noticed that the entries appeared in grey. Her teacher told her that this colour indicates how the TOC text was produced. Based on this, the grey colour in the TOC reminds us that the text has been generated _____.

(a) Manually (b) Automatically

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

(iii) While preparing a report, Arjun linked a chart from another document instead of copying it. Later, when he updated the original chart, the changes automatically appeared in his report. His teacher explained that this happens because linked information is always stored in a specific file. Based on this, linked data is stored in the _____.

(a) Destination file (b) Web file

(c) Source file (d) Domain file

(iv) _____ is used in between the cell reference in a formula.

(a) : (b) ,

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

(v) Internally for each recorded macro, some code is generated, which is stored inside _____and _____ clause.

(a) Sub, End Sub (b) Section, End Section

(c) Function, End Function (d) None of the above

(vi) Prerna is a student of class X. Her teacher has asked her to create a document on 'Women Empowerment'. She has written the text and also added relevant images in her document using Writer. But she has realised that the paragraph will look better if the images are placed around the text. Name the feature of writer she can use to get the desired result.

(a) Placing image (b) Positioning image

(c) Wrap text (d) Closing text

4. Answer any 5 out of the given 6 questions

(i) A/An _____ that identifies a specific computer on the Internet.

(a) User name (b) Domain name

(c) E-mail (d) None of these

(ii) Which of the following commands is not a Data manipulation language?

(a) Select (b) Insert

(c) Update (d) Alter

(iii) The first network ever developed was _____.

(a) ARPANET (b) Internet

(c) NSFnet (d) NET

(iv) Template includes _____ text that is surrounded by brackets.

(a) Margin (b) Placeholder

(c) Data source (d) Track changes

(v) _____ is the blank space between the worksheet data and the edges of the printed page.

(a) Field space (b) Data space

(c) Margins (d) Description box

(vi) Prashant is a writer. He has just completed writing his book using Writer software. Now, he wants to add a page which will contain the title of each chapter and its respective page number. Suggest the feature that can be used to do this task.

(a) Mail merge (b) Templates

(c) Styles (d) Table of contents

5. Answer any 5 out of the given 6 questions

(i) Priya, Ravi and Suresh are working in the accounts department of an advertising company. They handle different set of clients. Now, they are collaborating to create a spreadsheet for maintaining records of all their clients combined together. Which option should they use so that they all can work simultaneously in the sheet?

(a) Add document (b) Share document

(c) Combine document (d) None of these

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(ii) In a document, _____ refers to the vertical or horizontal placement of a graphic in relation to the chosen anchor point.

(a) Arrangement (b) Anchoring

(c) Alignment (d) Text wrapping

(iii) While checking the school database, Sanjay noticed that the same student information was stored in multiple tables. His teacher explained that storing the same data more than once is a common problem in poorly designed databases. Based on this, duplication of data is known as _____.

(a) Data security (b) Data incomplete

(c) Data redundancy (d) None of these

(iv) While working on his project file, Raghav wanted to add a hyperlink that would open a webpage or connect to an FTP server. His teacher told him that he must use a specific icon to insert such links quickly. Based on this, to create a hyperlink to a webpage, FTP server, or Telnet connection, he should click on the _____ icon.

(a) Internet explorer (b) Internet

(c) Hyperlink (d) Document

(v) During his computer class, Arjun learned how the World Wide Web works. His teacher explained that when a user requests a website, the user's software acts as the client in the communication process. Based on this, in the WWW, a client is called _____.

(a) Web server (b) Web page

(c) Web browser (d) None of these

(vi) Reviewers and authors can add their _____ to explain their changes in the cell of Spreadsheet.

(a) Comments (b) Hyperlink

(c) Worksheet (d) Macros

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. Samantha is organizing her computer's files. She needs to move a project folder to a new directory to keep things tidy, but she also wants to create a backup of the same folder in a different location. She wonders how moving a folder differs from copying it. What is the difference between moving and copying a folder?

7. Can you explain what it means to encode a message?

8. How do green skills contribute to sustainable development?

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9. Amit, an entrepreneur, raises funds from investors and financial institutions to set up a solar energy business. He plans to use the capital to create jobs and contribute to economic growth. How entrepreneur is helpful in capital formation?

10. How stress can be caused by both good and bad experiences?

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 a workbook and worksheet?

12. Define data, the major component of a database.

13. Name any two ways of wireless connections of Internet. Ramya wants to connect all the computers of her office wearilessly in order to avoid uncoordinated cables. Which wireless technology would be best suitable for her office?

14. Ravi is a busy professional who prefers to shop online. He enjoys the convenience of browsing through a variety of products, comparing prices, and having them delivered to his doorstep without leaving home. What are the benefits of online shopping?

15. What is the use of grouping objects in a word processor application?

16. What is the use of Scenario tool?

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

17. Ojas had prepared a Table of Contents of the project work he had done in a word processor application.

(a) Tell him the different steps to update the TOC.
(b) Tell him the different steps to delete the TOC.

18. Define the following types of integrity :

(i) Entity integrity
(ii) Domain integrity
(iii) Referential integrity
(iv) User defined integrity

19. Priya, a data analyst, is working with a large dataset of customer information in a spreadsheet. She needs to arrange the data based on customer names. She uses the sorting feature to sort the data in ascending order, making it easier to manage. What is sorting? How to use ascending or descending sort which depends on one column?

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20. Amit, a database administrator at a company, is tasked with managing employee records in a table. He needs to answer some questions about the employee data and create SQL queries to retrieve specific information from the database.

Table : Employee							
Emp_no	**E_name**	**Profile**	**Manager**	**Hire_date**	**Salary**	**Commission**	**Dept No**
8369	SMITH	CLERK	8902	1990-12-18	8000	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	16000	300.00	30
8521	SETH	SALESMAN	8698	1991-02-22	12500	500.00	30
8566	MAHA-DEVAN	MANAGER	8839	1991-04-02	29850	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	12500	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	28500	NULL	30

(a) How many fields and records are there in the table Employee?

(b) Write the SQL queries for the following:

(i) Display E name and Salary of those employees whose Salary is greater than or equal to 22000.

(ii) Display details of employees those are not getting Commission.

(iii) Display all the details of the employee profile 'SALESMAN'.

21. Pinky has recently started learning about the different types of computer networks in her computer studies class. As she goes through the chapter, she encounters several new terms that she finds interesting but slightly confusing. Wanting to build a clearer understanding of these concepts, she decides to ask for guidance so she can differentiate between the various network types. Pinky had heard about the words types of networks. She had some doubts. Answer to her queries to clear her doubts.

(i) What is PAN?

(ii) Define the term WAN.

(iii) Define the term MAN.

(iv) Write a disadvantage of both LAN and WAN.

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