CBSE | DEPARTMENT OF SKILL EDUCATION

INFORMATION TECHNOLOGY (SUBJECT CODE - 402)

MARKING SCHEME FOR CLASS X (SESSION 2023-2024)

Max. 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. There is no negative marking.
    iii. Do as per the instructions given.
    iv. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
    i. This section contains 16 questions.
    ii. A candidate has to do 10 questions.
    iii. Do as per the instructions given.
    iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Q. 1	**Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)**				
i.	b. Interpersonal Barrier	NCERT	Communication Skills	Pg-72	1
ii.	b. Ishan : Install reliable antivirus software and update	NCERT	Unit 3	Pg-77	1
iii.	b. Stress Management	NCERT	Unit-2 Self-Management Skills	Pg-42	1
iv.	c. Mental	NCERT	Unit-2 Self-Management Skills	Pg-17	1
v.	d. All of these	Employability Study Material	Entrepreneurial Skills	Pg-55	1
vi.	c. United Nations	NCERT	Green Skills	Pg-63	1
Q. 2	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	d. Row	CBSE Study Material	Unit 1 Session 4	Pg – 30	1
ii.	a. Black	CBSE Study Material	Unit 1 Session 4	Pg – 17	1

iii.	a. Wraptaext	CBSE Study Material	Unit 1	Pg - 13	1
iv.	a. Data source	CBSE Study Material	Unit 1 Session 5	Pg – 41	1
v.	b. Sharpen	CBSE Study Material	Unit 4 Session 2	Pg – 172	1
vi.	b. DSL	CBSE Study Material			1
Q. 3	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	b. Scenario	CBSE Study Material	Unit 1	Pg - 17	1
ii.	b. Linksheet	CBSE Study Material	Unit 2 Session 2	Pg - 74	1
iii.	c. Solver	CBSE Study Material	Unit 2 Session 1	Pg – 67,68	1
iv.	a. Sheet tab	CBSE Study Material	Unit 2 session 2	Pg - 72	1
v.	b. Sharpen	CBSE Study Material	Unit 1 Session 2	Pg - 13	1
vi.	b. Comparing	CBSE Study Material	Unit 2	Pg -94	1
Q. 4	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	c. Form	CBSE Study Material	Unit 3	Pg - 155	1
ii.	b. 3	CBSE Study Material	Unit 3	Pg – 135	1
iii.	c. SQL	CBSE Study Material	Unit 2	Pg - 72	1
iv.	b. Varchar	CBSE Study Material	Unit 3	Pg - 124	1
v.	d. F5	CBSE Study Material	Unit 3 Session 4	Pg - 143	1
vi.	a. 1	CBSE Study Material	Unit 3	Pg - 113	1
Q. 5	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	c. Serial	CBSE Study Material	Unit 4 Session 1	Pg - 168	1
ii.	a. Blog	CBSE Study Material	Unit 4 Session 5	Pg - 183	1
iii.	c. Google	CBSE Study Material	Unit 4	Pg - 177	1
iv.	b. 14Hd{]$_Sb10	CBSE Study Material	Unit 4 Session 5	Pg - 184	1
v.	a. LAN	CBSE Study Material	Unit 4 Session 2	Pg - 170	1
vi.	b. IP Protcol	CBSE Study Material	Unit 4 Session 11	Pg - 170	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q. No.	QUESTION	Source Material (NCERT/ PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Answer any 3 out of the given 5 questions on Employability Skills in 20 – 30 words each (2 x 3 = 6 marks)					
Q. 6	Learning objectives of Effective communication are : 1. Sending, receiving and understanding the message or information 2. Development of Interposal Skills 3. To express effectively with maximum efficiency	Employability Study Material	Chap. No. 1	Pg – 1,2	2
Q. 7	The smartest and most successful people welcome new ideas and diverse perspectives, allowing them to see more opportunities ahead of them and better solutions to problems. Open-minded entrepreneurs are able to strategize better because they can listen to varying and look at a problem through multiple lenses.	NCERT	Chap. No. 1	Pg - 13	2

Q. 8	The ability to work independently can be enhanced by being self-regulated. Self-regulation guides independent individuals as it help them to consider long term consequences rather than just transient feelings. It leads to a responsible and a value driven behavior. It teaches self-control and well-directed efforts to reach the goal. Self-regulated includes discipline that helps in consistent efforts to move towards the goal.	NCERT	Unit 2	Pg - 43	2
Q. 9	We can prevent the computer against attack of viruses by installing proper antivirus, enabling the firewall, scan external devices before using on other computer, by avoiding emails that are suspicious or not known to us, should be very careful while downloading files or any programs from the internet etc.	NCERT	Unit 3	Pg - 81	2
Q. 10	The focus of green growth strategies is ensuring that natural assets can deliver their full economic potential on a sustainable basis. That potential includes the provision of critical life support services – clean air and water, and the resilient biodiversity needed to support food production and human health.	STUDY MATERIAL	Entrepre-neurship Skills	Pg – 63	2
Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)					
Q. 11	Anchoring refers to the reference point for the graphics. This point could be the page, or frame where the object is, paragraph, or even a character. An image always has an anchor point. (Answer in Libre Office and Open Office both are acceptable.)	CBSE Study Material	Unit 1 Session 2	Pg-21	2
Q. 12	Sorting is the process of arranging data into meaningful order so that you can analyze it more effectively. For example , you might want to arrange sales data by calendar month so that you can produce a graph of sales performance. (Answer in Libre Office and Open Office both are acceptable.)	CBSE Study Material	Unit 2 Session 4	Pg-104	2
Q. 13	The etiquettes to be followed while chatting on the internet are : i. Message should be short and to the point. ii. Always introduce yourself by name if your screen name doesn't reflect it. iii. Always ask if the other person has time to chat first, regardless of how important you think what you have to say is, it's not going to be well received if the recipient is busy.	CBSE Study Material	Unit 3 Session 3	Pg-130	2
Q. 14	Goal seek determines what values needs to be input in a cell to achieve the described result in a formula	CBSE Study Material	Unit 2 Session 1	Pg-66	2

	cell as it allows varying the value for one cell whereas Solver can solve equations that uses several variables, so it can be used to determine what values need to be entered in multiple-input cells to achieve the described result.				
Q. 15	A primary key is a unique value that identifies a row in a table, whereas a foreign key identifies a column or set of columns in one (referencing) table that refers to a column or set of column in another (referenced. table. A table can have only Primary Key but a table can have multiple foreign keys.	CBSE Study Material	Unit 3 Session 1	Pg-113	2

Q. 16	A healthy lifestyle helps to keep and improve people's health and well-being. A healthy lifestyle includes :
	i. Healthy eating habits.
	ii. Physical activities.
	iii. Stress management
	    v. Sound sleep
	    vi.
		NCERT	Unit 4 Session 11	Pg-211	2

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)					
Q. 17	The table of contents is a snapshot of the headings and page numbers in your document and does not automatically updates itself as you make changes. It acts as a map for the users. A good table of content has the following characteristics: • It should be easy to read and simple to use. • It should be organised and formatted properly. • It must be accurate and easily accessible. • It should be given after the title and copyright page. (Answer in Libre Office and Open Office both are acceptable.)	CBSE Study Material	Unit 1 Session 2	Pg-21	4
Q. 18	Scenarios are a tool to test "What-if" questions. Each scenario is names and can be edited and formatted separately. When you print the spreadsheet, only the content of the currently active scenario is printed. A scenario is essentially a saved set of cell values for your calculations. You can easily switch between these sets using the navigator or a drop-down list which can be shown beside the changing cells. For example, if you wanted to calculate the effect of different interest rates on investment, you could add a scenario for each interest rate and quickly view the results. Formulas that rely on the values changed by your scenario are updated when the scenario is opened. If all your	CBSE Study Material	Unit 2 Session 1	Pg-65	4

	sources of income used scenarios, you could efficiently build a complex model of your possible income.				
Q. 19	There are different kinds of online threads: i. **Phishing:** Phishing attacks use fack communication, such as an email, to trick the receiver into opening it and carrying out the instructions inside, such as providing a credit card number. ii. **Malware:** Malware is malicious software such as spyware, ransomware, viruses, and worms. Malware is activated when a user clicks on a malicious link or attachment, which leads to installing harmful software. iii. **Password Attacks:** With the right password, a cyber attacker has access to a wealth of information. Social engineering is a type of password attack that data insider defines as "a strategy cyber attackers use that relies heavily on human interaction and often involves tricking people into breaking standard security practices." iv. **Email spoofing:** It is the forgery of an email header so that the message appears to have originated from someone or somewhere other than the actual source.	CBSE Study Material	Unit 4 Session 8	Pg-195	4
Q. 20	Referential Integrity is used to maintain the accuracy and consistency of data in a relationship. In Base, data can be linked between two or more tables with the help of primary key and foreign key constrains. Referential Integrity is important in DBMS as: • It prevents the entry of duplicate data. • It prevents one table from pointing to a nonexistent field in another table. • It prevents consistency between "Partnered" tables. • It prevents the deletion of a record that contains a value referred to by a foreign key in another table. • It prevents the addition of a record to a table that contains a foreign key unless key unless there is primary key in the linked table.	CBSE Study Material	Unit 3 Session 3	Pg-135	4

Q. 21	i. Select*from Datesheet order by DateofExam	CBSE Study Material	Unit 3 Session 4	Pg - 142	**4**
	ii. Select*from Datesheet				
	iii. Select Sub_Name, DateofExam from Datesheet where Days= 'Monday'				
	iv. Select Sub_Name, Date of Exam from Datesheet where Sub_Name = 'Science'				
	For visually impaired candidates.				
	i) A database management system is a software package with computer programs that controls the creation, maintenance, and use of a database. It allows organizations to conveniently develop databases for various applications. A database is an integrated collection of data records, files, and other objects. A DBMS allows different user application programs to concurrently access the same database. Well known DBMSs include Oracle, IBM DB2, Microsoft SQL Server, Microsoft Access, PostgreSQL, MySQL, FoxPro, and SQLite.	CBSE Study Material	Unit 3 Session 1	Pg - 108	
	ii) Database servers are dedicated computers that hold the actual databases and run only the DBMS and related software. Typically databases available on the database servers are accessed through command line or graphic user interface tools referred to as Frontends; database servers are referred to as Back-ends. Such type of data access is referred to as a client-server model.	CBSE Study Material	Unit 3 Session 1	Pg – 109	
	iii) Data integrity means that the data is accurate and consistent in the database. Data Integrity is very important as there are multiple databases in a DBMS. All of these databases contain data that is visible to multiple users.	CBSE Study Material	Unit 1 Session 3	Pg - 109	
	iv) A record is a set of information (made up of fields) stored in your database about one of the items.	CBSE Study Material	Unit 1 Session 3	Pg - 110	