

INFORMATION TECHNOLOGY (SUBJECT CODE- 402)

Blueprint for Sample Question Paper for Class X (Session 2020-2021)

Max. Time: 2 Hours

Max. Marks: 50

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Communication Skills-II	1	1	2
2	Self-Management Skills-II	2	1	3
3	Information and Communication Technology Skills-II	1	1	2
4	Entrepreneurial Skills-II	1	1	2
5	Green Skills-II	1	1	2
TOTAL QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		Any 4	Any 3	
TOTAL MARKS		1 x 4 = 4	2 x 3 = 6	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (40 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE	SHORT ANSWER TYPE	DESCRIPTIVE/ LONG ANS. TYPE	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	4 MARKS EACH	
1	Digital Documentation	6	1	1	8
2	Electronic Spreadsheet	6	2	1	9
3	Database Management System	6	1	2	9
4	Web Applications and Security	6	2	1	9
TOTAL QUESTIONS		24	6	5	35
NO. OF QUESTIONS TO BE ANSWERED		20	Any 4	Any 3	
TOTAL MARKS		1 x 20 = 20	2 x 4 = 8	4 x 3 = 12	40 MARKS

Sample Question Paper for Class X (Session 2020-2021)

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. 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.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	Karan lives at a hostel in Shimla. He calls his mother who lives in Delhi, to get her approval for the robotics class which is going to start in his school next week onwards. However, due to disruption in the phone line, his mother could not understand and reply to him. He got very upset. Which another medium can he use to get immediate approval of his mother? a) E-mail b) Letter c) Message through Friend d) Fax	1
ii.	Trisha is always tense during exam time. She is a sincere and studious student, but the thought of exams creates anxiety in her. Which stress management technique that you would suggest to help her? a) Yoga b) Exercise c) Vacation with Family d) All of these	1
iii.	_____ability of a person to do the things that need to be done without someone or something influencing us. a) Self-Motivation c) Self Discipline b) Self Awareness d) Self-Regulation	1
iv.	According to the concept of sustainable development, the environment and development are _____ issues. a) Inseparable b) Separate c) Independent d) None of these	1
v.	The cleaning of software installed in the computer cannot be achieved by _____. a) Disk cleanup b) backup c) Cleaning CPU cabinet d) Installing antivirus software	1
vi.	Entrepreneurship has a crucial role in the _____ of the society. a) Evolution b) Planning c) Functioning d) None of these	1

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	_____is not an instant messaging service. a) Skype b) Yahoo! Messenger c) Firefox d) Whatsapp	1
ii	_____is the process of emptying a place in case of an emergency, disaster.	1

	a) Accident d) Exiting	b) Evacuation	c) Hazards			
iii	Richard needs to set up a network for his office where he wants to save all the data in a centralized system and other computers will take the services from the centralized system. Which architecture will be the best suitable for him?	a) Peer to Peer Ring	b) Client-Server	c) Point to Point d)	1	
iv	A _____ is a device that converts digital computer signals into a form (analog signals) that can travel over phone lines and vice versa.	a) Repeater	b) Switch	c) Router	d) Modem	1
v	_____ is specifically designed to minimize or maximize the result according to a set of rules that you define in a spreadsheet.	a) Goal Seek	b) Scenario	c) Solver	d) Subtotal	1
vi	_____ refers to the vertical or horizontal placement of a graphic in relation to the chosen anchor point.	a) Alignment	b) Footer	c) Margin	d) Headings	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	Krishna wants to make a flowchart for his programs in a Word document. Which option should he use to accomplish this task efficiently? a) Drawing/Shapes b) Symbols c) Pictures d) All of these	1
ii	Fatima has inserted a picture in a document. But she wants to cut off a part of the picture. Which option she should use to accomplish the task? a) Cut b) Copy c) Crop d) Layout	1
iii	The intersection point between a row and column is called__. a) Row b) Column c) Table d) Cell	1
iv	Amrita is celebrating her 14th birthday. She wants to invite her friends and family members to the party. Which feature will she use to send the same invite to many people with different addresses without typing it again and again? a) Mail Merge b) Letter wizard c) Document Type d) None of these	1
v	A___is a model that you use to create other documents. a) Styles b) Template c) Wizard d) Sample	1
vi	Formulas in a Spreadsheet must begin with a___sign. a) \$ b) @ c) # d) =	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	_____is a tool to test “what-if” questions. a) Scenario b) Solver c) Macro d) Average	1
ii	Rohit scored 25 out of 30 in English, 22 out of 30 in Maths. He wants to calculate the score in IT he needs to achieve 85 percent in aggregate. Suggest him the suitable option out of the following to do so. a) Macro b) Solver c) Goal Seek d) Sub Total	1
iii	_____can be used in a spreadsheet software to jump to a different location from within a spreadsheet and can lead to other parts of the current file, to different files or even to web sites. a) Illustrations b) Hyperlinks c) Links d) Filter	1

iv	<p>_____uses the keyboard as a pointing device instead of a mouse.</p> <p>a) MouseKeys b) Toggle key c) Filter key d) Sticky key</p>	1
v	<p>Krish and Kritika have done a survey of age wise literacy rates of their locality as a school project, which they have created in a Spreadsheet. They both want to work simultaneously to complete it on time. Which option they should use to access the same Spreadsheet to speed up their work.</p> <p>a) Consolidate Worksheet b) Shared Worksheet c) Link Worksheet d) Lock Worksheet</p>	1
vi	<p>_____database is a type of database that stores data in several tables.</p> <p>a) Flat b) Relational c) both (a) and (b)c) None of them</p>	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	In database_____helps us to retrieve the filtered data based upon some conditions. a) Forms b) Reports c) Queries d) Table	1
ii	A_____is one which connects computers and devices in a limited geographical area such as home, school, computer laboratory, office building, or closely positioned group of buildings. a) LAN b) WAN c) MAN d) PAN	1
iii	Rudrakshh wants that the name column of a table must not be left blank. Help him to identify the field property for this purpose. a) Length b) Default c) Entry Required d) Format	1
iv	_____ can be set for a field if the user doesn't provide any value while entering the values in the table. a) Required b) Default c) Primary Key d) Format	1
v	Aadya wants to create a connection between two or more tables. Suggest her the option to accomplish the task. a) Table b) Form c) Relationships d) Sorting	1
vi	_____data type takes the values in the form of 0 and 1 in the database. a) Integer b) Text c) Boolean d) Memo	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability

Skills (2 x 3 = 6 marks) Answer each question in 20 - 30 words.

Q. 6	Communication skills are very important for any business. Explain any two elements of a communication process. The communication process involves understanding, sharing, and meaning, and it consists of eight essential elements: source, message, channel, receiver, feedback, environment, context, and interference	2
Q. 7	Mention any two misconceptions about the Entrepreneurship. Born Rich, Entrepreneurs have to take huge risks, Entrepreneurs are never stressed out.	2

Q. 8	<p>Goal setting is a very essential factor in your personal life. List all the SMART methods to set the goals. Explain 'A' in brief.</p> <ul style="list-style-type: none"> • Specific (simple, sensible, significant). • Measurable (meaningful, motivating). • Achievable (agreed, attainable). • Relevant (reasonable, realistic and resourced, results-based). • Time bound (time-based, time limited, time/cost limited, timely, time-sensitive) 	2
Q. 9	<p>What are the measures to increase the performance of a computer system?</p> <p>Uninstall unnecessary software. Limit the programs at startup, Add more RAM to your PC ,Check for spyware and viruses.</p>	2
Q. 10	<p>How can an individual contribute to Sustainable Development Goals?</p> <ol style="list-style-type: none"> 1) Save electriciv 2) Save Petroleum 3) Think before you print! – And recycle the paper you do use for printing. 4) Actually iust recycle: Paper, plastic, glass, 5) Save Water 	2

Answer any 4 out of the given 6 questions in 20 - 30 words each (2 x 4 = 8 marks)

Q. 11	<p>Differentiate between Relative and Absolute Hyperlinks with the help of an example.</p> <p>Relative Paths</p> <ul style="list-style-type: none"> • index.html • /graphics/image.png • /help/articles/how-do-i-set-up-a-webpage.html <p>Absolute Paths</p> <ul style="list-style-type: none"> • http://www.mysite.com • http://www.mysite.com/graphics/image.png • http://www.mysite.com/help/articles/how-do-i-set-up-a-webpage.html 	2
Q. 12	<p>What is the utility of text wrapping in a document?</p> <p>The main reason to use square text wrapping is to make documents look better.</p>	2
Q. 13	<p>What is the use of Macros in a Spreadsheet?</p>	2

	Macros are code that automate work in a program—they let you add your own tiny features and enhancements to help you accomplish exactly what you need to do, quickly with just a click of a button	
Q. 14	Write any two advantages of online shopping. Saves time and efforts. The convenience of shopping at home. Wide variety/range of products are available. Good discounts / lower prices.	2
Q. 15	Differentiate between Primary key and Foreign key. <ul style="list-style-type: none"> • A primary key constrain is a column that uniquely identifies every row in the table of the relational database management system, while foreign key is a column that creates a relationship between two tables. • Primary Key never accepts null values whereas foreign key may accept multiple null values. • You can have only a single primary key in a table while you can have multiple foreign keys in a table. 	2
Q. 16	Define the following Hot spots:- a) WiMAX- WiMAX technology is a wireless broadband communications technology based around the IEEE 802.16 standard providing high speed data over a wide area. b) Wi-Fi- is a wireless networking technology that allows devices such as computers (laptops and desktops), mobile devices (smart phones and wearables), and other equipment (printers and video cameras) to interface with the Internet. ... Internet connectivity occurs through a wireless router.	2

Answer any 3 out of the given 5 questions in 50- 80 words each (4 x 3 = 12 marks)

Q. 17	<p>Elaborate four different types of styles which can be provided in a Word Processor.</p> <p>Page-margin, page no Paragraph- text alignment, tab stops, border, line spacing Character- bold, italic, color Frame- format of graphics List- bullet</p>	4
Q. 18	<p>Define the following:</p> <p>Subtotals- are calculated with a summary function, such as Sum or Average, by using the SUBTOTAL function. You can display more than one type of summary function for each column.</p> <p>Consolidating Data- Data consolidation refers to the collection and integration of data from multiple sources into a single destination. During this process, different data sources are put together, or consolidated, into a single data store.</p>	4
Q. 19	<p>What precautions must be taken to improve online security?</p> <p>Check social privacy settings. ... Don't use public storages for private information. ... Evade tracking. ... Keep your main e-mail address and phone number private. ... Use messaging apps with end-to-end encryption. ... Use secure passwords. ... Review permissions for mobile apps and browser extensions.</p>	4
Q. 20	<p>What is DBMS? Explain any two advantages of DBMS.</p> <p>Improved data sharing, Improved data security, Minimized data inconsistency, Improved data access</p>	4

Q. 21 a) The structure of a table "ITEM" is given below. Suggest suitable data type and size of each column.

Column name	Type	Size
Itemno	<u>Integer</u>	<u>5</u>
Iname	<u>Varchar</u>	<u>30</u>
Price	<u>Float</u>	<u>5</u>
Quantity	<u>Integer</u>	<u>5</u>

b) Consider the following table "ITEM":

Table: Item

Itemno	Iname	Price	Quantity
11	Soap	40	80
22	Powder	80	30
33	Face cream	250	25
44	Shampoo	120	100
55	Soap box	20	50

Write queries to

i. Display the total amount of each item. The amount must be calculated as the price multiplied by quantity for each item.

Select Iname, price*quantity from ITEM

ii. Display the details of items whose price is less than 50.

Select * from ITEM where price<50