## **INFORMATION TECHNOLOGY (SUBJECT CODE - 402)**

#### Sample Question Paper for Class X (Session 2022-2023)

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 $(1 \times 4 = 4 \text{ marks})$	)
i.	Stress Management covers all the tolls that alleviate stress, which could	1
	otherwise prove to be lethal disease.	
	a. Low	
	b. Chronic	
	c. Temporary	
	d. Anxiety	
ii.	provide us with energy and motivation to achieve our goals.	1
	a. Stress	
	b. Distress	
	c. Eustress	
•••	d. Depression	4
iii.	To be a successful entrepreneur, you must be	1
	a. Goal - Oriented	
	b. Rich	
	c. Technology Driven	
	d. Visionaries	
iv.	Azim H Premji is the chairman of	1
	a. Infosys	
	b. Wipro Limited	
	c. Mahindra Group	
	d. Hero Corp	
v.	CUI refers to	1
	a. Character User Interface	
	b. Clever User Interface	
	c. Common User Interface	
	d. Coding User Interface	
vi.	Windows OS is based on user interface.	1
	a. Graphical	
	b. Character	
	c. Data	
	d. Virtual	

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Which of these is a psychological factor at work that can prove Hazardous?	1
	a. Conflicts at workplace	
	b. Lasers	
	c. Presence of allergens	
	d. None of these	
ii.	Manmade disasters include	1
	a. Civil Disturbances	
	b. Earthquakes	
	c. Tsunami	
	d. None of these	

iii.	A key strategy to prevent fire us to remove		1
	a. Heat and Oxygen c. Hea	t, Oxygen and Fuel	
	• •	e of these	
iv.	The process of selling and buying produ	cts over the internet is called	1
	a. Online Shopping b. E- r	eservation	
	11 6	e of these	
v.	The Qumana blogwin	dow helps you to add a blog.	1
	a. Helper c. Man	ager	
	b. Both a and b d. None	e of these	
vi.	Before publishing your first blog post, you	ou must first your site.	1
	a. Publicise c. Acti	vate	
	b. Customise d. Boo	kmark	

Q. 3	Answer any 5 out of the given	6 questions (1 x 5 = 5 marks)	
i.	TOC contains all the entries as		1
	a. Objects	c. Item	
	b. Hyperlink	d. BookMark	
ii.	The document is cr	eating by merging the main document with the data	1
	source fields.	owning of morgang and main account with the anim	_
	a. Merged	c. Collated	
	b. Combined	d. Blank	
iii.	Which of the following extension	ns is enclosed with a template?	1
	adocm	cdocs	
	bdotx	ddox	
iv.		in printing multiple address on a	1
	single sheet.		
	a. Stickers	b. Objects	
	c. Labels	d. Details	
v.		ou click to set the font and size of text in a	1
••	paragraph?	a chek to set the folk and size of text in a	•
	paragraph.		
	a. Tablet Styles	c. Character Styles	
	b. Paragraph Styles	d. Indent Styles	
vi.	is a combinati	on of title, heading, and paragraph styles.	1
	a. Style Set	c. Color Set	
	b. Font Set	d. Index Set	

Answer any 5 out of the given 6 q	uestions (1 x 5 = 5 marks)	
Which step should you follow befo	re using the subtotal command?	1
a Consolidate Data	h Sort data	
Which of the following feature of a	spreadsheet will you use to collate the data of	1
ı	•	
a. Consolidate	c. Columns	
b. Subtotal	d. Data Provider	
The cell reference for cell range G2	2 to M12 is	1
A hyperlink in a spreadsheet can be	£	1
b. Picture	d. none of these	
In a spreadsheet, comments can be	e added to the cells by clicking on	1
a. Insert>Comment	c. Review>New Comment	
b. View > Add Comment		
An argument can be passed through	a macro function	
a. By Value	c. Both a and b	
b. By Reference	d. None of these	
	Which step should you follow beforms. Consolidate Data c. Filter data  Which of the following feature of a several worksheets into a master was a. Consolidate b. Subtotal  The cell reference for cell range G2 a. G2.M12 b. G2;M12  A hyperlink in a spreadsheet can be a. Text b. Picture  In a spreadsheet, comments can be a. Insert>Comment b. View > Add Comment  An argument can be passed through a. By Value	c. Filter data  d. both A & C  Which of the following feature of a spreadsheet will you use to collate the data of several worksheets into a master worksheet?  a. Consolidate b. Subtotal c. Columns d. Data Provider  The cell reference for cell range G2 to M12 is  a. G2.M12 b. G2;M12 c. G2;M12 d. G2_M12  A hyperlink in a spreadsheet can be  a. Text c. both a and b d. none of these  In a spreadsheet, comments can be added to the cells by clicking on  a. Insert>Comment c. Review>New Comment b. View > Add Comment c. Review>New Comment c. Both a and b c. Both a and b

Q. 5	Answer any 5 out of the given 6	questions $(1 \times 5 = 5 \text{ marks})$	
i.	In a database, the information is s	stored in the form of:	1
	o Dowe	a Tables	
	a. Rows	c. Tables	
	b. Columns	d. All of the above	
ii.	In which type of database, can yo	ou retrieve the data from the related tables?	1
	a. Database Management System		
	b. Relational Database Manageme	ent System	
	c. Rational Database Managemen	at System	
	d. None of the above	·	
iii.	A table can have only one	key.	1
	a. Primary	c. Composite	
	b. Secondary	d. Concatenation	
iv.	Which of the following database of	objects are used to retrieve data from database?	1
	a. Queries b. Tables	c. Reports d. Layouts	
		1	
v.	TheSQL comma	and is used to create a table in the database.	1
	a. Select	c. Insert table .	
	b. Create table	d. Add table	
	o. Croud tubic	a. riaa moto	

vi.	The	data type	is used to store date	or time or combination of	1
	date and time.				
	a. Date/Time	b. Calendar	c. Interval	d. Table	

#### **SECTION B: SUBJECTIVE TYPE QUESTIONS**

### Answer any 3 out of the given 5 questions on Employability Skills $(2 \times 3 = 6 \text{ marks})$

Answer each question in 20 – 30 words.

Q. 6	What is the definition of stress?	2
Q. 7	What is external self – awareness?	2
Q. 8	What is an operating system? What are the basic functions of an operating system?	2
Q. 9	What is the relationship between an entrepreneur and a society?	2
Q. 10	Why should an entrepreneur be open minded?	2

#### Answer any 4 out of the given 6 questions in 20 - 30 words each $(2 \times 4 = 8 \text{ marks})$

Q. 11	What is Table of Contents? What is its significance in a document?	2
Q. 12	Mention any two operations that can be performed using Macros in a spreadsheet.	2
Q. 13	What do you mean by Hyperlinks in Spreadsheets? Give the two different types of	2
	Hyperlinks that can be used in Spreadsheets.	
Q. 14	Differentiate between DBMS and RDBMS.	2
Q. 15	What is Phishing?	2
Q. 16	In which situations online shopping could be useful? Write any two popular	2
	e-commerce websites.	

#### Answer any 3 out of the given 5 questions in 50-80 words each $(4 \times 3 = 12 \text{ marks})$

Q. 17	Explain the main steps of Mail Merge in a digital document. How is it useful in printing mailing labels?	4
Q. 18	What are the 'What-if Analysis' tools used in a spreadsheet? Explain them briefly.	4
Q. 19	Seema's father does not have much idea about the internet. Explain the following to him.  a. What do you mean by a browser?  b. Define the following:  i. WiMax ii. Hotspot  c. Differentiate between LAN and WAN. d. What is a Blog? Write any two features of a blog.	4
Q. 20	Sudheer is not clear about the use of a database. Explain to him the following to give him a better understanding of the DBMS concepts.  1. Describe any four advantages of DBMS.  2. State the relationship and difference between a primary and foreign key.  3. Define the structure of a table.  4. What is the difference between a tuple and attribute?	4
Q. 21	What is SQL? What is the use of SELECT command of SQL? Discuss any two DDL and DML command with their syntax.	4

# **INFORMATION TECHNOLOGY (SUBJECT CODE - 402)**

## **MARKING SCHEME SAMPL PAPER (SESSION 2022-2023)**

## **CLASS X**

Max. Time: 2 Hours Max. Marks: 50

## **SECTION A: OBJECTIVE TYPE QUESTIONS**

Q.	QUESTION	Marks
No.	Angreen one A out of the circon 6 questions on Employability Shills (	1 v 4 – 4 maulza)
Q. 1 i.	Answer any 4 out of the given 6 questions on Employability Skills (b. Chronic	1 x 4 = 4 marks) 1
ii.	a. Stress	1
iii.	a. Goal - Oriented	1
iv.	b. Wipro Limited	1
V.	a. Character User Interface	1
vi.	a. Graphical	1
Q.2.	Answer any 5 out of the given 6 questions $(1 \times 5 = 5 \text{ marks})$	
i.	a. Conflicts at workplace	1
ii.	a. Civil Disturbances	1
iii.	c. Heat, Oxygen and Fuel	1
iv.	c. Manager	1
v.	c. Activate	1
vi.	a. Objects	1
Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	a. Objects	1
ii.	a. Merged	1
iii.	bdotx	1
iv.	c. Labels	1
v.	b. Paragraph Styles	1
vi.	a. Style Set	1
Q. 4	Answer any 5 out of the given 6 questions $(1 \times 5 = 5 \text{ marks})$	
i.	b. Sort data	1
ii.	a. Consolidate	1
iii.	c. G2:M12	1
iv.	c. both a and b	1
v.	a. Insert>Comment	1
vi.	a. By Value	1
Q. 5	Answer any 5 out of the given 6 questions $(1 \times 5 = 5 \text{ marks})$	
i.	c. Tables	1

ii.	b. Relational Database Management System	1
iii.	a. Primary	1
iv.	a. Queries	1
v.	b. Create table	1
vi.	a. Date/Time	1

## **SECTION B: SUBJECTIVE TYPE QUESTIONS**

Q. No.	QUESTION	Marks
	Answer any 3 out of the given 5 questions on Employability Skills $(2 \times 3 = 6 \text{ marks})$ Answer each question in $20 - 30 \text{ words}$ .	
Q. 6	Stress refers to a "physical, mental, or emotional strain or tension".	2
Q. 7	External self-awareness, means understanding how other people view us. It requires us to gather insights from the world around us to understand what others think of us.	2
Q. 8	An operating system is a program that acts as an interface between the system hardware and the user. All the working of a computer system depends on it. It performs functions like handling memory, processes, the interaction between hardware and software, etc.	2
Q.9	As businesses prosper the impact the businesses create on society also increases. It is due to entrepreneurial activity that the society is provided with goods and services. In turn, society provides a market for products and services provided by the entrepreneur.	2
Q. 10	Someone open-minded is willing to accept or learn about new ideas and opportunities. That's why open-mindedness is such an essential trait for an entrepreneur. Open-minded entrepreneurs are able to strategize better because they can listen to different viewpoints and look at a problem through different angles.	2
	Answer any 4 out of the given 6 questions in $20-30$ words each (2 x 4 = 8 marks)	
Q. 11	A table of contents is a list of chapters at the beginning of a book. A ta content helps in navigating through a document by providing associated numbers and direct links to various headings available on those pages. I reader a bird's eye view of the document. A TOC is like an outline. At you can see how a document will flow from one topic to the next. A do with a TOC looks more organized and professional	l page it gives the a glance,
Q. 12	Macros are used to perform different types of operations in a Spreadsh 1. Formatting settings to be applied repeatedly in a spreadsheet. 2. Sorting Data. 3. Applying mathematical functions/formulas	eet: 2
Q. 13	Hyperlinks can be used to jump to a different location from within a sprand can link to other parts of the current file, to different files or even to sites.  Relative And Absolute Hyperlinks:  A relative link has a URL with an address relative to its location and was working if the start and target locations change relative to each other. A link has a URL address which is a complete path and will stop working the target is moved.	o web ill stop n absolute

Q. 14	DBMS	RDBMS	2
	DBMS stores data as file.	RDBMS stores data in tabular form.	
	Data elements need to access individually.	Multiple data elements can be accessed at the same time.	
	No relationship between data.	Data is stored in the form of tables which are related to each other.	
	Normalization is not present.	Normalization is present.	
	It stores data in either a navigational or hierarchical form.	It uses a tabular structure where the headers are the column names, and the rows contain corresponding values	
	It deals with small quantity of data.	It deals with large amount of data.	
	Data redundancy is common in this model.	Keys and indexes do not allow Data redundancy.	
Q. 15	designed to trick a person into deploy malicious software	tack where an attacker sends a fraudulent message or evealing sensitive information to the attacker or on the victim's machine. The messages appear to e and are usually sent through email.	2
Q. 16	local market but is available	al when a product or service is not available in the online, a customer does not have sufficient time to e store is more expensive than it is online.	2
	Answer any 3 out of the gi	iven 5 questions in 50–80 words each $(4 \times 3 = 12)$	marks)
Q. 17	1. Creating a main docum	-	
	<ol> <li>Creating a data source.</li> <li>Defining the merge fie</li> <li>Merging the data with</li> </ol>	lds in the main document.	
	5. Saving/exporting For labels, you would construe	ct a source document containing the	
	addresses of the people you we document that controls where etc. to go on the label. The mainformation about how many l	ish to print labels for and a main each person's name, address, city, state in document would also contain labels are on a page, the size of each	
	type of printer you will use to	paper the labels are attached to, and the print the labels. Running a mail merge set of labels, one for each entry in the	

Q. 18	i) Using "What If" Scenarios: Scenarios are a tool to test "what-if"	4
	questions. Each scenario is named, 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 a saved set of cell	
	values for your calculations.	
	ii) Using Goal Seek: Usually, you run a formula to calculate a result	
	based upon existing values. By contrast, using the Goal Seek option,	
	you can discover what values will produce the result that you want.	
	iii) Using the Solver: Solver is a more elaborate form of Goal Seek.	
	The difference is that the Solver deals with equations with multiple	
	unknown variables. It is specifically designed to minimize or	
	maximize the result according to a set of rules that you define. Each of	
	these rules sets up whether an argument in the formula should be	
Q. 19	greater than, lesser than, or equal to the value you enter.	4
Q. 19	a. A browser is a software program that is used to explore, retrieve,	4
	and display the information available on the World Wide Web.	
	b.	
	i. WiMAX is a wireless communications standard designed for	
	creating metropolitan area networks. WiMAX operates similar to	
	Wi-Fi, but at higher speeds over greater distances and for a greater	
	number of users.	
	ii. A hotspot is a physical location where people can access the	
	Internet, typically using Wi-Fi, via a wireless local area network	
	with a router connected to an Internet service provider.	
	c. LAN is a computer network established within a small geographic	
	area, such as a house, office or buildings. WAN, on the other side, is	
	a computer network that covers a broad geographical area. LANs	
	allow users to transfer the data faster, whereas WANs have a	
	comparatively slower data transfer rate.	
	d. A blog (weblog) is an online journal or informational website run	
	by an individual, group, or corporation that offers regularly updated	
	content (blog post) about a topic.	
	Features: It presents information in reverse chronological order and	
	is written in an informal or conversational style.	
Q. 20	1. Advantages of DBMS: Improved data sharing, Improved data	4
	security, Better data integration and Minimized data inconsistency.	
	2. A primary key is used to ensure that the value in the particular	
	column is unique. The foreign key provides the link between two	
	tables. A foreign key is a column or a set of columns in one table that	
	references the primary key columns in another table.	
	Difference:	
	• A table allows only one primary key but can allow more than one	
	foreign key.	
	• The primary key doesn't allow null values and cannot be deleted.	
	Foreign key accepts multiple null values and can be deleted.	
	3. In relational databases and flat file databases, a table is a set of data	
	values that is stored in the form of vertical and horizontal rows, with a	
	cell being the unit where a row and column intersect.	
	4. A tuple means a row and an attribute means a column.	
	• A row is a horizontal alignment of data, while a column is	
	vertical.	
	• A column or attribute is a set of data values of a particular type,	
	one for each row of the table. A row also called a Record or	
	Tuple represents a single, data item in a table.	
	• Each row in a table represents a set of related data, and every	

row in the table has the same structure.	
SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in a relational database. SQL is the standard language for Relational Database System. All the Relational Database Management Systems (RDMS) like MySQL, MS Access, Oracle etc. use SQL as their standard database language.  The SQL SELECT statement is used to fetch the data from one or more database tables and returns this data in the form of a result table. These result tables are called result-sets.  A) DDL: DDL is Data Definition Language  Commands: i CREATE - CREATE database <databasename> ii. DROP - DROP database <databasename> B) DML: DML is Data Manipulation Language  Commands: i. INSERT - INSERT INTO <tablename> (column1, column2, column3) VALUES (value 1, value2, value3); iii. DELETE - DELETE FROM <tablename> WHERE column= 'VALUE';</tablename></tablename></databasename></databasename>	