

DAV PUBLIC SCHOOL, MCL, KALINGA AREA

SAMPLE PAPER -4 (2020-21)

CLASS – X

SUB: Information Technology (402)

MARKING SCHEME

SECTION A:OBJECTIVE TYPE QUESTIONS		
Q.1 i.	b)Sound-Sentry	1 marks(Any 4)
ii.	d)Self-awareness	1 marks
iii.	d)All of these	1 marks
iv.	b) 17	1 marks
v.	c) Firewall	1 marks
vi.	b) Creates Jobs and Employment opportunities	1 marks
Q.2 i.	b) Peer-to-Peer	1 marks(Any 5)
ii.	c) Evacuating the building in case of emergency	1 marks
iii.	d) 2 and 3	1 marks
iv.	a) Weebly	1 marks
v.	c) 1,3 and 4	1 marks
vi.	a) File >New> Templates	1 marks
Q.3 i	b) Text Wrapping	1 marks(Any 5)
ii.	d) Table Style	1 marks
iii	c) data	1 marks
iv.	b) Indexes and table	1 marks
v.	c) Load styles	1 marks
vi.	a) Goal seek	1 marks
Q.4 i.	a) Ctrl+K	1 marks(Any 5)
ii.	c) Macro	1 marks
iii.	a)Solver , Goalseek	1 marks
iv.	a) Serial Key	1 marks
v.	d) Edit> Changes> Merge	1 marks
vi.	a) Foreign key	1 marks
Q.5 i.	c). 1,2,5 and 6 only	1 marks(Any 5)
ii.	c) Field	1 marks
iii.	a)Alter	1 marks
iv.	d)All the above	1 marks
v.	a)Drop	1 marks
vi.	a) Text(varchar)	1 marks
SECTION B:SUBJECTIVE TYPE QUESTIONS		
Q.6	a) Clear Information b) Complete Information c) Concise Message d) Concrete and coherent presentation e) Correctness of Facts f) Consideration of the message and the receiver g) Courtesy towards receiver (Explain Any two appropriate answer)	2 marks
Q.7	<ul style="list-style-type: none"> ▪ Entrepreneurs create employment opportunities not only for themselves but for others as well. ▪ Higher productivity. ▪ Economic prosperity. ▪ Ingredient of modern production system. ▪ Protector of society's interests. 	2 marks

Q.8	<p>2. Teamwork Good teamwork skills refer to the ability to work harmoniously with your colleagues to achieve a shared goal. There are many things you can do to boost your teamwork skills, including:</p> <ul style="list-style-type: none"> • Volunteering to help coworkers with projects • Working with others in a local organization • Joining a sports team <p>3. Reliability Reliability makes you more employable because it promotes trust between you and your employer. You can become more reliable by:</p> <ul style="list-style-type: none"> • Consistently meeting or exceeding your expected levels of work performance • Creating schedules for your daily tasks and maintaining them • Acknowledging your mistakes and making a conscious effort to avoid them in the future 	1+1=2 marks
Q.9	<p>Here are seven ways you can improve computer speed and its overall performance.</p> <ul style="list-style-type: none"> ▪ Uninstall unnecessary software. ▪ Limit the programs at startup. ▪ Add more RAM to your PC. ▪ Check for spyware and viruses. ▪ Use Disk Cleanup and defragmentation. ▪ Consider a startup SSD. ▪ Take a look at your web browser. 	2 marks
Q.10	<p>The four R's are used for Reduce, Reuse, Recycle and Recover. REDUCE: This means to use the environmental resources in a sustainable way and prevent the wastage. For example, using a bucket full of water instead of a shower while bathing.</p>	2 marks
Q.11	<p>Goal Seek is Excel's built-in What-If Analysis tool that shows how one value in a formula impacts another. More precisely, it determines what value you should enter in an input cell to get the desired result in a formula cell.</p> <p>The best thing about Excel Goal Seek is that it performs all calculations behind the scenes, and you are only asked to specify these three parameters:</p> <p>Formula cell Target/desired value The cell to change in order to achieve the target</p>	2 marks
Q.12	<p>When Keep scale is selected (default), cropping the image does not change the scale of the picture. When Keep image size is selected, cropping produces enlargement (for positive cropping values), shrinking (for negative cropping values), or distortion of the image so that the image size remains constant.</p>	1+1=2marks
Q.13	<p>The Excel SUBTOTAL function returns an aggregate result for supplied values. SUBTOTAL can return a SUM, AVERAGE, COUNT, MAX, and others and SUBTOTAL function can either include or exclude values in hidden rows.</p> <p>To create a subtotal:</p> <ul style="list-style-type: none"> • First, sort your worksheet by the data you want to subtotal. ... • Select the Data tab, then click the Subtotal command. ... • The Subtotal dialog box will appear. ... • Click the drop-down arrow for the Use function: field to select 	1+1=2marks

	the function you want to use .	
Q.14	<ul style="list-style-type: none"> A malware attack is where a computer system or network is infected with a computer virus or other type of malware. A computer compromised by malware could be used by cybercriminals for several purposes. These include stealing confidential data, using the computer to carry out other criminal acts, or causing damage to data. A phishing campaign is when spam emails, or other forms of communication, are sent en masse, with the intention of tricking recipients into doing something that undermines their security or the security of the organization they work for. Phishing campaign messages may contain infected attachments or links to malicious sites. Or they may ask the receiver to respond with confidential information 	1+1=2marks
Q.15	<p>In a Hierarchical database, model data is organized in a tree-like structure. Data is Stored Hierarchically (top down or bottom up) format. Data is represented using a parent-child relationship. In Hierarchical DBMS parent may have many children, but children have only one parent.</p> <p>Relational DBMS is the most widely used DBMS model because it is one of the easiest. This model is based on normalizing data in the rows and columns of the tables. Relational model stored in fixed structures and manipulated using SQL.</p>	1+1=2marks
Q.16	A firewall is a hardware and software-based security system designed to protect and monitor both a private internet network and a computer system. While antivirus is a software program that detects and eliminates any threats that will destroy a computer system.	1+1=2marks
Q.17	Click a template that is similar to the one that you want to create, and then click Choose. Add, delete, or change any text, graphics, or formatting, and make any other changes that you want to appear in all new documents that you base on the template. On the File menu, click Save As.	4marks
Q.18	<p>multiple operation combines a series of formulas with a variable and a series of values. The results of each formula with each value is shown in the table. Additionally, it is possible to calculate a single formula with two variables using a 2-value series.</p> <p>Choose Data > Multiple Operations. With the cursor in the Formulas field of the Multiple operations dialog, click cell B5. Set the cursor in the Column input cell field and click cell B4. This means that B4, the quantity, is the variable in the formula, which is replaced by the selected column values.</p> <p>Unlike a scenario, the Multiple Operations tool does not present the alternate versions in the same cells or with a drop-down list. ... It is created by entering a list of alternative values for one or two of the original values.</p>	1+2+1=4marks
Q.19	<p>Information Security on Cloud</p> <p>Cloud computing offers digital cloud storage. It has massive potential in store but, such growth gives rise to malicious activities as well. As the use of cloud services increase, so does the need for security solutions. Individuals and organizations should not depend on the cloud storage platform for security, instead, they should take the matter in their own hands. There are some following ways in which you can</p>	1+1+1+1 =4marks

improve cloud security from your end:

- Encrypt your data to add additional layers for security purposes.
- Have a backup of your data, that way you cannot lose the information even if something happens due to human error or hacking activity.
- Grant access permission only after the authentication check.
- Limit the access of sensitive information to the people who need it.

2. Online Transaction Security

Mostly, online security is required during the online transaction. A wrong transit during the transaction could leak your bank details to the hacker. Therefore, take as many precautions as you can during the online transaction.

Track your bank accounts through mobile and email notifications, so that you can notice any suspicious transaction. Make sure the website you're providing your information is trustable and has a good security mechanism. Take the proof of the transaction immediately.

3. Email Security

Emails are the main source for the hacking activities because it is open and free. It makes easy for hackers to conduct malicious activities such as spoofing. For improving online security and **control cyber-attacks** users need to improve their email security by following these security tips:

- Do not click on the links coming from an untrusted source.
- Control who has your email, the more public your email address is, the more it has the chances to be targeted by a hacker.
- Install an email security service.

4. Use a Firewall or Other Antivirus

Prevent your system from malicious websites by blocking them through the firewall. It's very necessary to keep your application up to date. Use antivirus to protect the device against computer viruses and set a reminder for updates.

5. Avoid Public Server Connections

A secure internet connection is a must while browsing. Try not to use public Wi-Fi to connect to the servers, especially for making any transaction through the internet.

6. Clear Cache Memory

Clear cache memory timely as well as web browser history to safeguard your online information from data theft and protect your privacy.

7. Keep Your Device Setting Secure

Change your device security settings from by default to according to your preference and set these privacy settings carefully. Keep your device location off and grant access permission to specific websites only. Decide carefully what information you want to share or not and in case of mobile devices learn [how to secure android phones](#) from

	<p>hackers.</p> <p>8. Social Media Privacy Settings</p> <p>Social media expose our life to the public and any person with bad intentions can take advantage of it. Improve online security by taking control of your social media privacy. Make your passwords as strong as possible, keep most of the security options private, use incognito mode if you are using a public device for accessing your account and protect the sensitive data online.</p> <p>9. Avoid Clicking on Random Links</p> <p>Malicious links can damage the privacy and security of your system in several ways. Therefore, while browsing the internet, make sure to inspect links and ensure they are from a trusted source before clicking. Read the cookie's policies carefully before accepting it.</p> <p>10.Improve Cyber Security Skills</p> <p>There are so many online courses through which you can enhance your Cyber Security skills and knowledge. Therefore, pursue an Online <u>Cyber Security Course</u> to learn how can you improve online security.</p> <p>(Any four appropriate answer)</p>	
Q.20	<p>a) TEXT has a fixed max size of $2^{16}-1 = 65535$ characters. VARCHAR has a variable max size M up to $M = 2^{16}-1$. So you cannot choose the size of TEXT but you can for a VARCHAR . The other difference is, that you cannot put an index (except for a fulltext index) on a TEXT column.</p> <p>b) Primary key is used to identify data uniquely therefore two rows can't have the same primary key. It can't be null. On the other hand, foreign key is used to maintain relationship between two tables. Primary of a table act as forgein key in the other table.</p>	1+1+1+1=4marks
Q.21	<p>a) Create table student(SNO int(5), STUNO char(3), Name char(20), STD char(5), JAIPUR char(3), BARMER char(5), POCKET int(5));</p> <p>b) Select * from Student where STD='XI';</p> <p>c) SNO is the primary key field in the table</p> <p>d) Insert into student values(8,'GO7','Neha','XII','MB',4500);</p>	1+1+1+1=4marks
