General Information Technology Examination 2019,2020,2021,2022(2023)

Question No.	Answer No.	Question No.	Answer No.	Question No.	Answer No.	Question No.	Answer No.
01.	2	11.	1	21.	4	31.	2
02.	2	12.	2	22.	_Any option	32.	1
03.	4	13.	33	23.	2	33.	4
04.	3	14.	4	24.		34.	3
05.	1	15.	1	25.		35.	1
06.	3	- 16.	3	26.		36.	3
07.	2	17.	3	27.	3	37.	1
08.	2	18.	3	28.	1	38.	4
09.	3	19.	3	29.	2	39.	4
10.	4	20.	2	30.	1	40.	1

Marking Scheme Paper I

Special Instructions:

01 Mark for each question

Total Marks 01 × 40 = 40

Confide

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(i) What are the factors you consider for a desktop computer for video editing? (10 marks)	
Answer	
a) Processor Power or Model: The processor is one of the most critical components. A more powerful processor can handle video editing software and render videos faster.	
b) Processor Generation: Newer generations tend to offer better performance and power efficiency.	
c) RAM: Video editing software can be memory-intensive.	Any 5 from a) to h)
d) Memory Type: DDR4 or DDR5 RAM is preferable for faster data access and smoother video editing.	Each of them gets 02 marks
e) Storage/ Hard disk capacity: Solid State Drives (SSDs) are much faster than Hard Disk Drives (HDDs). It's recommended to have an SSD for the	(total 10 marks) Note:
operating system and software, and a larger HDD for storing video files.	Note.
f) Graphics Card: A dedicated graphics card with a significant amount of video memory (VRAM) can accelerate rendering and playback.	If the "Processor Speed" is mention give 1 mark.
g) Operating System: Ensure that the computer runs a stable and compatible operating system. Windows 10 or a newer version is a common choice.	
r) Display Size and Resolution: A larger and high-resolution monitor provides a better workspace for video oditing.	

(ii)

Select one of the three specifications given and justify your answer. (09 marks)

Answer

Among the three computer options provided, Computer 3 seems to be the most suitable for video editing. Here's the justification:

- **Processor**: Computer 3 has an Intel Core i5 processor from the 3rd generation, and the i5 offers better performance than the i3.
- RAM: Computer 3 has 8GB of RAM, which is more memory than the 4GB found in Computers 1 and 2. Video editing can be RAMintensive, so the extra RAM in Computer 3 will enable smoother editing and multitasking.

 Hard Drive: All three options have HDDs, which are slower than SSDs, but Computer 3 has the largest capacity at 500GB, providing ample space for video files.

• **Display Size**: Computer 3 offers a 22" LED monitor, which is larger than the 20" monitor in Computer 1 and the 19" monitor in Computer 2. A larger display is preferable for video editing tasks.

Selection of "Specification 3" gets 3 marks

RAM and any 02 items below gets 06 marks (02 marks each)

- Intel Core i5
- 500GB hard disc capacity
- Dell 22" LED Monitor

(total 09 marks)

(iii)	
Write at least 150 words article to a newspaper encouraging every citizen	
to have an understanding on basic computer hardware. (06 marks)	
Answer	
Article should address following issues/ points:	4) (e)
 In today's digital age, computers have become an integral part of our lives 	
understanding basic computer hardware is a skill that every citizen should possess	
3. Few examples of application computers in everyday life where computer hardware play a major role	
4. When buying a computer, knowing the difference between	
processors, RAM, and storage options can help you make a smart purchase	
 Basic knowledge of computer hardware allows you to upgrade your system when needed. 	Any three (03) from the list on the left-hand side should be included i
 Understanding storage devices helps you manage your data effectively. 	the article.
Knowing the hardware components can make you more aware of potential security risks.	Each item in the list gets O2 marks
8. Understanding hardware can help you troubleshoot video call	If the answer is not in an article fo
issues, configure your microphone and camera, and ensure your online meetings run smoothly	then reduce 01 mark.
	(total 06 marks)

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(i) Identify three logical connectives and explain their functionalities. (09 marks)

Answer

a) OR (Disjunction):

The OR connective is represented by the symbol "v" or simply the word "or." It is true if at least one of the statements it connects is true. It is false only when both statements are false.

b) AND (Conjunction):

The AND connective is represented by the symbol " \wedge " or simply the word "and." It is true only when both statements it connects are true. If any one of the statements is false, the entire compound statement is false.

c) NOT (Negation):

The NOT connective is represented by the symbol "~" or "¬." It negates the truth value of a statement. If a statement is true, its negation is false, and vice versa.

- "OR" Connective/ Symbol gets 03 marks
- Explanation of the OR connective/ truth table fc the OR gate 01 mark.
- "AND" Connective/ Syml gets 03 marks
- Explanation of the AND connective/ truth table the AND gate 01 mark.

"NOT" Connective gets 01 mark

If students states that the giver scenario has only 02 logical connectives, they can get 01 m

(total 09 marks)

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	No. No.
(ii) Draw a truth table for the above admission criteria. (10 marks)	
<u>Answer</u> Let:	- (i D G
 I: Three passes in the physical science stream of GCE (A/L) IIa: Three passes in any other stream of GCE (A/L) IIb: Successfully completed an acceptable foundation course in Information Technology with sufficient Mathematics AC: Admission Criteria (I v (IIa Λ IIb)) 	 Marks for defining logical variables, Ar 04 marks for Identification o three logical variables (names can be different but

1	lla	đi	AC (I OR (IIa AND IIb))
0 (F)	0 (F)	0 (F)	0 (F)
0 (F)	0 (F)	1 (T)	0 (F)
0 (F)	1 (T)	0 (F)	0 (F)
0 (F)	1 (T)	1 (T)	1 (T)
1 (T.)	0 (F)	0 (F)	1 (T)
1 (T)	0 (F)	1 (T)	1 (T)
1 (7)	1 (T)	0 (F)	1 (T)
1 (T)	1 (T)	1 (T)	1 (T)

In the truth table, "1" or "T" represents "True," and "0" or "F" represents "False." The last column represents the truth value of the entire admission criteria (AC) for different combinations of I, Ila, and Ilb. Marks for logical truth values

 03 marks for setting the correct truth values for thre logical variables.

the used names should be

If only two logical variables defined give 02 mark If only one logical variables defined give 01 mark

mapped into three admission criteria).

-unfid

 03 marks for correct computing of AC for all the patterns. 02 marks for 04 correct computations and 0 mark for at least one correc computation.

If students used variable names not given in the question, they should define their variables clearly. At least the output should be defin using input variables.

(total 10 marks)

(iii)

Discuss the suitability of a truth table to represent the above admission criteria. (06 marks)

Answer

- A truth table is a suitable tool to visualize the admission criteria because it provides a clear and systematic representation of how the criteria evaluate different scenarios.
- The truth table is also helpful in identifying when the criteria are met and when they are not, making it easier to determine eligibility.
- It's a concise way to account for all possible combinations of the individual criteria (I, IIa, and IIb) and their interactions, ensuring a fair and transparent admission process.

02 points x 03 marks

(total 06 marks)

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(i) What is a web authoring tool? Explain. (08 marks)

Answer

A web authoring tool is a software application or platform that allows individuals,

- even those without extensive coding knowledge, to
- create and manage web content, websites, and web applications.
 These tools
- simplify the web development process by providing
- <u>a user-friendly interface</u> that allows users to design, structure, and format web pages
- without needing to write code from scratch.

Some common examples of web authoring tools include Adobe Dreamweaver, WordPress, Wix, and Squarespace.

OR

These tools typically offer features such as

- visual editors,
- templates,
- <u>drag-and-drop functionality</u>, and
- pre-built components,
- WYSiWYG

making it easier for individuals to create web content and publish it on the internet.

Any 02 underlined terms/phrase the given answer.

Each underlined term/phrase g marks

(total 08 marks)

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(ii) Propose a web authoring tool known to you which can be used for this	
task and explain how you can develop this application using it.(12 marks)
Answer	
Students should discuss the features in underlined terms/phrases in the above answer to	
(i) and show that those features are available in the Web Authoring Too hey proposed.	terms/phrases in the proposed tool.
	Each underlined term/phrase available in the proposed tool gets 03 marks
	(total 12 marks)
iii) Discuss the advantages of web authoring tools. (05 marks) Answer	
A. No Coding Skills Required	
B. Faster Development	
C. User-Friendly D. Cost-Effective E. Community Support	If "No Coding Skills Required" that is the Option A is mentioned give 02 marks
F. Templates and Themes	If "Faster Development" that is the
	Option B is mentioned give 02 marks
	Any other from C,D,E, and F gets 01 mark
	(total 05 marks)

(i) Define e-Waste and state the major contributors to e-Waste. (10 marks)

E-waste definition

Electronic waste or e-waste describes <u>discarded</u> <u>electrical or electronic</u> <u>device</u>s.

E-waste is <u>electronic products</u> that are <u>unwanted</u>, not working, not functional (obsolete) and nearing or at the <u>end of their "useful life</u>."

Major contributors to e waste

Computers Televisions (TV) Video cassette recorders (VCR) Compact Discs (CD) Photocopiers Fax machines Mobile phones Batteries etc...) If the answer contains the word or meaning of "Discard/Unwanted/not working/not functioning/end of their----useful life" give 03 marks i)

If the answer contains the words or meaning of "electrical or electronic pl devices" gets another 03 marks er

21

02 mark x 2 acceptable contributors

(Total 10 marks)

	and the second secon
(ii) Explain the negative impact of e-waste to the environment. (09 marks)	
A. Air pollution when they burned	
B. Landfills	
C. Hazardous materials contaminated with groundwater	Answer should have an impact on
D. Impact for biodiversity/ecosystem	 Living Being
E. Impact for human health	AND
F. Climate change through carbon footprint	 Environment (any two)
G. Accumulation of waste	o Air
H. Impact on agriculture	o Water
	o Soil o etc.
	o etc.
	and the surface of the second
	03 marks x 03 explanations
방법 같이 아니는 것 같은 것이 같이 많이 많이 했다.	(Total 09 marks)
(iii)	
(
Explain how you can manage e-waste using the 3R concept	
(Reduce, Reuse, Recycle). (06 marks)	At least one way of implementing
방법 이 집안에 집안 것 같은 것 같아요. 나는 것 같아요.	reduce, reuse and recycle
Reduce	2 marks for each x 3 ways=6 marks
	(How to reduce How to reveal How
a. Purchase products with multiple functions	(How to reduce , How to reuse, How to recycle)
Opt for electronic devices that serve multiple purposes or have	
integrated features, reducing the need for multiple gadgets.	
	NO MARKS FOR WRITING 3R AS IN
b. Think the need of the product before purchasing	THE QUESTION.
Consider the necessity of a product before buying it, avoiding	•
unnecessary electronic purchases that contribute to e-waste.	
c. Purchase Durable Products	
Choose electronic devices known for their durability and	
reliability.	
, chuomty.	
전화 이렇는 그는 것을 통하는 것을 하는 것이 가지 않는다.	
Reuse	
a. Sell electronics which are not in use	
 Instead of discarding unused electronics, sell them to 	
others who might find them valuable, extending the	
lifespan of the device.	
 Use online marketplaces to sell or trade electronics that 	*
are still in good working condition.	
 Some retailers and manufacturers offer trade-in 	
programs, allowing users to exchange old devices for	
discounts on new ones.	

- b. Repair broken electronics Fixing malfunctioning devices can prolong their usability and prevent them from becoming e-waste prematurely.
- C. Donate old devices to charities
 Donating still-functional electronics to charities or organizations
 can benefit others while preventing unnecessary disposal.
- d. Maintain the purchased electronics. Regular maintenance can help extend the life of electronic devices, reducing the frequency of replacements
- e. Share with Family or Friends

Pass down old electronics to family members or friends who may still find them useful.

f. Create a Sharing Network

Establish local networks for sharing electronics among community members, fostering a culture of reuse and reducing individual ownership.

Recycle

 Buy products that can be recycled/environmental friendly Choose electronics with materials that are recyclable and adhere to environmental standards, reducing the environmental impact.

b. Buy recycled products

Support the use of recycled materials by purchasing products made from recycled content, contributing to the demand for recycling processes.

- c. Invent new ideas of recycling
- Avoid buying hazards items which are impossible to recycle Refrain from purchasing products that contain hazardous materials or are challenging to recycle, minimizing the potential environmental harm.
- e. Use renewable energy sources

Incorporating renewable energy into the lifecycle of electronic devices is part of a holistic approach to environmental sustainability. It contributes to reducing the environmental impact at various stages of the electronic device lifecycle, from manufacturing and use to end-of-life management, thus indirectly influencing the generation and management of e-waste. When electronic devices are powered by renewable energy, it contributes to a cleaner energy lifecycle. As a result, the devices themselves might last longer since they are less likely to be exposed to pollutants associated with traditional energy sources. This can help extend the overall lifecycle of electronic devices. This is indirectly supporting recycling.

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(i) There are many tools including <u>Zoom App</u> , <u>Google Meet</u> , and <u>Microsoft</u> <u>Teams</u> .	4 marks for any tool
Each of these tools have facilities for <u>large number of participants</u> , <u>screen</u> <u>sharing</u> , <u>recording</u> , <u>presentations</u> , <u>speaker view</u> , <u>chat</u> , <u>polls</u> , <u>breakout</u> <u>rooms</u> , <u>whiteboards</u> and ensure the security of the information.	2 mark for each x 3 facilities = 06 marks (total 10 marks)
 (ii) <u>Password protected</u> the documents. Send passwords <u>separately</u>. Use an <u>encrypted channel</u> Share files in a <u>groupware</u> Use a <u>VPN</u> Use a <u>secure cloud computing service</u> Send using <u>offline modes</u> (courier a CD) 	02 marks for "Password protect" or "Encrypted" 01 marks for "separately" 3 marks for each way x 2 ways = 06 marks (total 09 marks)
 (iii) Methods: Verbal communication Text messages Encrypted channels such as WhatsApp, Teams Password vaults 	03 marks each x 2 methods (from 4 in the list of methods given on 1 left-hand side). There may be multiple tools supporting one method. (total 06 marks)

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(i)

Explain the benefits of formulae in spreadsheets. (07 marks)

Time-saving: Formulas can save a lot of time by automating calculations and eliminating the need for manual calculations. Once a formula is set up, it can be used repeatedly with different data inputs.

Accuracy: Formulas can perform complex calculations with a high degree of accuracy, reducing the risk of errors and improving the quality of the output.

Consistency: Formulas ensure consistency in calculations across different data - sets, ensuring that results are comparable and reliable.

Flexibility: Formulas can be easily modified to include different variables, adjust for changes in data sets, and accommodate new scenarios or requirements.

Analysis: Formulas can be used to analyze data, perform what-if scenarios, and identify trends and patterns that may not be immediately apparent from the raw Data.

Ease of use: Excel provides a wide range of pre-built formulas that can be easily accessed and applied to data sets without requiring extensive coding or programming skills.

- One benefit with no explanation (03 mar
- Two benefits with n explanation (04 mail
- One benefit with explanation (04 ma
- Two benefits with explanations (07 m

(total 07 marks)

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(ii)

Draw a sketch of the spreadsheet to calculate the monthly income tax for a Siven total income for tax calculation. Explain the content of each cell in your spreadsheet. (10 marks)

(1) Correct syntax of relevant formulae

(2) Possibility of deriving the final tax amount using the spreadsheet

- One column to specify the description of tax components a)
- b) One column for tax rates (percentages)
- c) One column to input taxable amounts
- d) One column to compute tax amounts

A user should decide the taxable amounts for each tax component after multiplying the monthly taxable income by 12.

A Sample worksheet is given below.

	A	В	с	D
1	Tax Component	Tax Rate	Annual Taxable Income	Taxable Amount
2	1st Rs 500,000	6%		=B2*C2
3	Next Rs 500,000	12%	5 × 4	=B3*C3
4	Next Rs 500,000	18%	10 x	=B4*C4
5	Next Rs 500,000	24%		=B5*C5
6	Next Rs 500,000	30%		=B6*C6
7	For the balance	36%		=B7*C7
8	Total Tax Amount			=sum(D2:D7)
9	Monthly Tax Amou	int		=D8/12

Note:

There can be three cases:

- 1. Use of annual taxable income
- 2. Use of monthly taxable income (divide values in the column A by 12)
- 3. Use of monthly taxable income (divide values in the column B by 12)

Please consider these three cases.

The above diagram depicts the Case 1. It solves the problem for a single person, however, a solution for multiple persons can also be given.

Correct formulaes/functions which are not included in the syllabus can be used and should be considered for giving marks, if used.

(3) Draw a sketch of a worksheet with monthly tax calculation

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01 mark x 02 correct formu (Excel point of view) In case of repeating a formul only 01 mark will be given.

01 mark 01 mark 01 mark 01 mark

04 marks

Total 10 n Sourc Department of Examination

	and the second
(iii) Describe the formatting you applied in the spreadsheet. (08 marks)	
Use of correct currency formatting with LKR in three places	02 marks
Use of text formatting in three place	
 Special formatting to show the final tax 	02 marks
Table border formatting or other acceptable formatting	02 marks
	02 marks
	(total 08 marks)

(i) Readers should be introduced to three commonly used operating systems. (06 marks)

1. Microsoft Windows:

- Known for its user-friendly interface, Windows dominates the desktop environment.
- It supports a wide range of software and is widely used in professional and personal settings.

2. macOS:

- o Developed by Apple, macOS runs on Apple hardware.
- It's prevalent in creative industries and is recognized for its stability and security features.

3. Linux/Ubuntu:

- Linux is an open-source operating system widely used in server environments and embedded systems.
- Its flexibility and robustness make it a favorite among developers and tech enthusiasts

Any 03 currently used OS Each gets 02 marks.

01 mark for document fe Maximum 06 marks

(Total 06 marks)

4. iOS

5. Android

nar	ks)	iders can understand what is happening inside a computer. (10	
Idi	KSJ		
	1.	Process Management:	아님은 그 아이는 아이는 것이 같이 같이 않는 것이 같이 가지?
		• OS oversees processes, ensuring each task gets the	방법에 대한 것은 소리에서 관계 전환 것이다.
		necessary resources and executes efficiently.	01 mark each for the name of the
	2.	Memory Management:	function.
		 It allocates and deallocates memory space, optimizing 	
		usage and preventing conflicts among different	01 mark each for a brief explanation
		applications.	of mark cuch for a brief expression
	3.	File System Management:	01 mark for document format
	э.	 OS organizes and manages files, facilitating data 	Maximum 10 marks
			Maximum 10 marks
		storage, retrieval, and organization on storage devices. Device Management:	4
	4.		(total 10 marks)
	•	 It controls and coordinates peripheral devices, allowing the computer to communicate with a second se	
	-	the computer to communicate with external hardware. User Interface	
	5.		
	6.	Security and Protection:	
		 OS implements security measures to safeguard data, postrict upports action of the security measures and the security measures are set of the security measures are security measures are security measures are secures are	
		restrict unauthorized access, and protect against	
	Ì	malware.	
)	The	malware.	
		malware. role of a booting process of an operating system when booting a	
		malware.	
	nput	malware. role of a booting process of an operating system when booting a er should be clearly presented. (09 marks)	
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	nput	malware. role of a booting process of an operating system when booting a ter should be clearly presented. (09 marks) Power-On Self-Test (POST): • When the computer is powered on, the POST routine checks hardware components to ensure they are	09 marks for the process with the
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	1. 2.	 malware. role of a booting process of an operating system when booting a ter should be clearly presented. (09 marks) Power-On Self-Test (POST): When the computer is powered on, the POST routine checks hardware components to ensure they are functioning correctly. Bootstrap Loader (MBR): After POST, the system searches for the bootstrap loader, a small program residing in the computer's ROM or BIOS. 	steps in the correct order which includes the points mentioned on th left side. If all the booting process steps are
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	1. 2.	 malware. role of a booting process of an operating system when booting a ter should be clearly presented. (09 marks) Power-On Self-Test (POST): When the computer is powered on, the POST routine checks hardware components to ensure they are functioning correctly. Bootstrap Loader (MBR): After POST, the system searches for the bootstrap loader, a small program residing in the computer's ROM or BIOS. Kernel Initialization: The kernel, the core of the operating system, is loaded 	steps in the correct order which includes the points mentioned on th left side. If all the booting process steps are
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	1. 2.	 malware. role of a booting process of an operating system when booting a ter should be clearly presented. (09 marks) Power-On Self-Test (POST): When the computer is powered on, the POST routine checks hardware components to ensure they are functioning correctly. Bootstrap Loader (MBR): After POST, the system searches for the bootstrap loader, a small program residing in the computer's ROM or BIOS. Kernel Initialization: The kernel, the core of the operating system, is loaded into memory. It initializes essential system processes and starts managing hardware and software resources. 	 steps in the correct order which includes the points mentioned on the left side. If all the booting process steps are mentioned but not in the correct order give 06 marks. 01 mark for document format

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