28.0 COMPUTER STUDIES (451)

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28.1 Computer Studies Paper 1 (451/1)

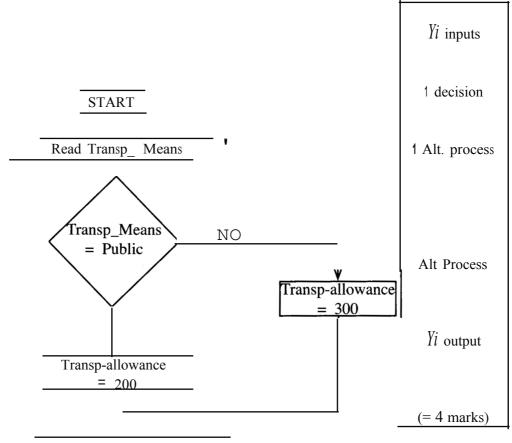
	Solution	Marks
1	 (a) Tab: Moves the text ahead to the next tab stop or several stops ahead/ right/ forward. (b) Enter: Break the line after the word 'is' so that the word 'an' starts on a new line. Words from "an" forms a new paragraph. (c) Home: Takes the cursor to the beginning of the line. Nothing happens to the text 	(= 3 marks)
2	 Computers can be automated or programmed. Computers are fast. Computers are capable of performing repetitive tasks. Computers can store a lot of information. Computers are accurate. Can do dangerous tasks. Give quality output. Diligence /don't get tired/sick. 	Any 4 x 1 (= 4 marks)
3	 They are more expensive. They hold less volume of data. They are volatile hence cannot store information once power is off. Its shorter access time is dependent on the memory size hence increasing the size of primary memory will eventually lead to longer access time. ROM cannot store data 	Any 3 x 1 (= 3 marks)
4	 (a) Point of sale system (POS)/Data base management system/stock control system/sales management system. (b) Keyboard, barcode scanner, credit card reader. (c) - Transactions will be accurate. Automatic updating of transactions. Automatic updating of stock level. Provide daily and periodical summaries for management use. Improved security/limited access. Easy of storage of files. 	Any 2 x $X = 1$ Any 2 x $1 = 2$ (= 4 marks)
5	 (a) Impact printer/Dot matrix/Daisy wheel. (b) It prints by using spokes which hit the paper hard. The energy is transferred to attached carbon papers. 	1 1 (= 2 marks)

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6	File types. - File extension. - File size. - Creating time/date of storage/saves time. - Owner/Account used. - Time of modification/date. - Usage conditions/File attributes (Read Only/Archives/Hidden). - Protection information. - Contents of the file -Access time.	Any 4 x !li (= 2 marks)
7	 System infected with viruses which occupy memory space. Many utilities are running in the background (e.g antivirus). Many applications are opened. RAM may be smaller than the required/part of RAM corrupted. Corrupted Registry. 	Any 2 x 1 (= 2 marks)
8	 Enactment of relevant laws to compact the vice. Stiff penalties for those found in possession of pirated software. Sensitize the public on the harm of using pirated copies. Making software affordable/cheaper. Certificates to identify the original software. Use of keys,passwords to secure software products. Restrict the number of installations. 	Any 2 x 1 (= 2 marks)
	Solution	Marks
9	Hardware consideration: - Main memory size/volume/capability. - Hard disk size. - Available input devices. - Available output devices. - Processor specification ie. speed/type/hardware. - Monitor resolution. - Bandwidth for busses (e.g 64-bit) - Compatibility - Configuration - Warranty terms for hardware.	Any 3 x 1 (= 3 marks)
10	 (a) Advantages: Shifts time of processing to when computers are less busy. No user input required hence no idle computer time as it awaits input. Input is done once (batch). Can enable use of hired equipment hence cost effective. (b) Bate)! processing. Electronic. 	Any 2 x 1 (= 2 marks) 1 (= 3 marks)

11	Advantages:	
	- Can be used in the absence of human teachers.	
	- Combines the expertise of many teachers hence more knowledgeable.	Any 3 x 1
	- Reduces cost of hiring many teachers/serves many students.	
	- Preservation of scarce expertise.	
	- Students can learn on time.	(= 3 marks)
12	- Encryption.	
	- Firewalls.	
	- User profiles/passwords/user.	Any 3 x 1
	- Limit the number of log-in attempts.	
	- Audit trail/tracking.	
	- Physical protection of computers.	(= 3 marks)
13	(a) Input mask: Is a layout/format that filters the data that can be entered in a field.	1
	(b) Default value: Used to specify the value that is automatically entered in a field	,
	when a new record is created.	1
		(= 2 marks)
14	(a) Warranty: If a software has a problem then it can be replaced.	1 with
marki	ng schemewith marking schemenot working can be returned for repair.	1
-	(b) Portability: To ascertain the compatibility with other systems.	(= 2 marks)
15	- Booking and reservations. eg. hotel, car, bus, air ticket.	,
	- Space explorations.	
	- Intensive care units (hospital). (ICU)	Any 2 x 1
	- Chemical plants/nuclear	
	- Military security	(= 2 marks)
	- Banking eg. ATM.	,
16	(a) Characteristic of scripting language:	
	- Use of tags.	
	- It is interpreted and not compiled.	Any 2 x 1
	- Do not have declaration part.	
	- User friendly	(= 2 marks)
	-Are portable.	
	-Must be embedded in the browser.	
(b)	Syntax Errors: Errors arising due to violation of language rules.	

(t	Syntax Errors: Errors arising due to violation of language rules.	
	Logical Errors: Errors arising from poor logic such as incorrect use of formulas/	
	semantic.	Any2
	Runtime Errors: Occur when there is abrupt interruption of running program.	(Error name 1
	When the running program stops abruptly.	Description 1)
		(= 4 marks)

(c) (i) 1. Input transp_means	1
2. If Transp_means = Public Then	
Transp_ allowance= 200	
Else	
Transp_ allowance = 300	1
3. Print Transp_allowance	1
4. Exit	



Print Transp_ allowance

END

	(iii) - Flowcharts require templates/complex symbols/special software while	
	pseudo code requires only a text editor.	
İ	- Drawing flowcharts takes a lot of time.	Any 2 x 1
	- Flowcharts occupy more space.	
	- Flowcharts permit development of logic sequences which cannot be coded	
	using valid structured code.	(= 2 marks)
	- Translation of flow charts into individual code is harder/difficulty.	
	Total for Question 16	15 marks

17	 American Standard Code for information interchange (ASCII). Extended BCD interchange code.(EBCDIC) 	Any 3 x 1
	- Unicode Standard BCD (6 bits)	(= 3 marks)
	(b) (i) $1 \ 1 \ 02 = 4 + 2 = 610$	1
	$0. \ 1012 = \ \dot{T} + \dot{T}$	1
	Sum= $6 + T+T$ = $6 \stackrel{5}{\text{sor}} 6.625$	1 ,
	(ii) 12 2 6RO 2 3RO 2 1 R 1 2 0 R 1	1
	$0.6875 \times 2 = 1.375$ $0.375 \times 2 = 0.75$ $0.75 \times 2 = 1.5$ $0.5 \times 2 = 1.00$	1
	$ 1100 + 0.1011 \\ = 1100.1011? $	1
	(c) 11001.0101 1 1 Q, Q 1 1QOII,QQOI	1 order
	(d) COMP (100101)= 0 1 1 0 1 0 + 1 001101 QIIQII 101000	1
	Carry= 0 recomplement the answer 010111 ±1 011000	1
	Total for Question 17	15 marks
18	content inside the cell. (ii) Nested table: is a table created inside another table.	1 1
	529	

- Square - Behind text Infront of text Tight Through Top and bottom None. Solution (c) (i) Axis label: Data corresponding to the vertical or horizontal lines of a given chart whereas ie x-axis and y-axis. Data label: are data that provide additional information about a data marker which represents a single data point on a value that originates from a worksheet cell. (ii) Cropping is the process of trimming/cutting/hiding vertical or horizontal edges of an object/picture while sizing is the process of enlarging/expanding or reducing/contracting an object/ picture to appropriate dimension (d) (i) = Product (B3:C3)=Product (C3,B3) (ii) = & B && *C5 + C5 = Product (&B &* *C5)+C5 (iii) = Count If (C2:C5 = 110) (iv)= Min (d2d5) Total for Question 18 15 marks 10 (a) Surfing Its the process of accessing /browsing/visiting internet resources like webpages. Uploading: Transferring files from a computer to a remote computer. Inbox: Folder/place in email system where incoming messages are stored/saved. (b) - Slower than a wired network The network can be less stable, wireless reception may be impaired by other wireless and wired devices within the network Risk of outsider accessing the network Very difficult to configure Very hard to trouble shoot. (c) - Block in appropriate content/Firewall/Filter Set limits on downloads Monitor where children go online Counsel children eg. not talking to strangers online.	1	1	
Behind text. Infront of text. Infront of text. Tight. Through. Top and bottom. None. Columbda Columbda		(b) - In line with text.	
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- Very hard to secure. - Very hard to trouble shoot. (c) - Block in appropriate content/Firewall/Filter. - Set limits on downloads. - Monitor where children go online. - Counsel children eg. not talking to strangers online. (= 3 marks) Any 3 x 1			
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(c) - Block in appropriate content/Firewall/Filter Set limits on downloads Monitor where children go online Counsel children eg. not talking to strangers online. Any 3 x 1		•	(
- Set limits on downloads Monitor where children go online Counsel children eg. not talking to strangers online. Any 3 x 1			
- Set limits on downloads Monitor where children go online Counsel children eg. not talking to strangers online. Any 3 x 1		(c) - Block in appropriate content/Firewall/Filter.	
- Monitor where children go online Counsel children eg. not talking to strangers online. Any 3 x 1			
- Counsel children eg. not talking to strangers online.			Any 3 x 1
- Supervise them.		- Supervise them.	
		- Giving user accounts/passwords/log ins.	(= 3 marks)

	output (c) (i) Manual: Manual files stored in cabinets/books/paper/in-tray/out-tray (ii) Electronic: Secondary storage devices/individual storage devices eg. Flash (d) (i) Student: Master file/Parent/Reference File/Primary. Register: Transaction file/Child table/Secondary. (ii) Master file: Data is static/Permanent/Semi-permanent. Transaction file: Data is dynamic/Temporary/Changes frequently	1 1 1 1 1 1
	output (c) (i) Manual: Manual files stored in cabinets/books/paper/in-tray/out-tray (ii) Electronic: Secondary storage devices/individual storage devices eg. Flash (d) (i) Student: Master file/Parent/Reference File/Primary.	1 1 1 1
	output (c) (i) Manual: Manual files stored in cabinets/books/paper/in-tray/out-tray (ii) Electronic: Secondary storage devices/individual storage devices eg. Flash	1 1 1
	output	1
	(b) (i) Sample data should be provided so that all modules can be tested. (ii) Output reports show that the system actually works/testing process/expected	1
	order to fit and continue in business. eg. competition. - Changes in technology requiring the upgrading or total change in the existing system. - Peer pressure need to remain fashion	(= 6 marks)
20	organisation requirements. - New directives may be received from authorities and the organisation must comply. - Changes in the operating environment forces the organisation to change in	Any 3 x 2
20	Solution (a) Comment assets an array has a symptomic a graph larger the arraby having a symphole to an east	Marks
	Total for Question 19	15 marks
	 (d) - Threat to privacy. Organisation "system admn" Can snoop into peoples mails. - Email can be unsolicited/spam mail. Messages can be sent to masses of people without their consents. - Vulnerability to machine failures. - Emails can be overwhelming when many messages are received leading to email overload and going through each of them can be taxing. - Email can be faked. - Email attached can be a source of viruses. - Email technology not available to all/Technology illiteracy. - Encourage illicit communication such as immoral behaviour. 	Any 3 x 2 (= 6 marks)

28.2 ComputerStudies Paper2 (451/2)

(a)	(i)	Database created and named.	(2 marks)
		 0 Creating of 3 tables x mark. 0 9 correct fields x mark. 	(3 marks) (9 marks)
	(ii)	Relationships:	
		 0 correct fields between 2 tables @ 1 mark x 2 0 type between 2 tables @ 1 mark x 2 0 enforcing referential integrity in any relationship. 	(2 marks) (2 marks) (Yi mark)
	(iii)	 Form created @ 1 mark x 3 Data entry per column x Yi mark selection of the correct object per table @ 1 mark x 3 	(3 marks) (41i marks) (3 marks)
(b)	(i)	0 Query created:	
		correct tablesnaming of the querycorrect fields	(1 mark) (1 mark) (1 mark)
		0 Age computation:	
		 use of formulae use of correct formulae expression (label) use of criteria correct criteria 	(1 mark) (1 mark) (1 mark) (1 mark) (1 mark)
		0 Report:	
		ExistenceCorrect fields	(1 mark) (1 mark)
	(ii)	0 labels:0 correct expression "average"	(1 mark) (1 mark)
(c)	(i)	Correct tables	(1 mark)
		Correct fields Name/saving	(1 mark) (1 mark)
	(ii)	Selection of correct graph	(1 mark)
		Selection of correct fields Saving 532	(1 mark) (1 mark)

(d)	Printi	0 the 0 que	three tables YZ x 3 ery output (EMPTYPE) 1 x YZ o reports 2 x YZ	(1 YZ marks) (Yi mark) (1 mark)
2	(a)	0 Fo	lder created:	
			existence	(1 mark) (1 mark)
		_	paragraphs @ 1 mark x 5 aphics:	(5 marks)
		• s • a • t • c • c	cylinder shaded cylinder arrowed lines chickness of arrowed line correct label copies of cylinders copies of arrows Saving	(1 mark) (1 mark) (1 mark)' (1 mark) (1 mark) (1 mark) (1 mark)
	(b) Saving:		(1 mark)	
	(c)	(i)	centre alignment	(1 mark)
			font style = bold font style = underline font size = 16 font type = Arial	(1 mark) (1 mark) (1 mark) (1 mark)
		(ii)	Drop cap:	
			0 correct paragraph	(1 mark)
			 0 drop capping 0 prop cap size = 4 lines 	(1 mark) (1 mark)
		(iii)	Bullet applied Application in correct lines	(1 mark) (1 mark)
		(iv)	Column applied Application on correct paragraph	(1 mark) (1 mark)
		(v)	Top margin set to $0.\mathcal{V}$ Left margin set to 0.9 N	(1 mark) (1 mark)
		(vi)	Alignment set to justification 533	(1 mark)

	(vii) (viii) (ix)	Movement of	et to 1.5 the correct paragraph	1 mark	(1 (1 (1	mark) mark) mark) mark) mark)
	(x)	Footer:		1 mark		
		0 a line exister 0 line dimension 0 name and in 0 objects place	on = 6""	1 mark 3 marks	(1 (1	mark) mark) mark) mark)
(d)	(i)	Table creation			(1	mark)
	(ii)	Data entry Insert blank ro		(X mark per column=	(1	mark) ,
		Entering the ti Merging cells	tie			mark) mark)
	(iii)	Label and posi Formula[= av	tioning erage(ABOVE)]	1 mark		mark)
	(iv)	~ -	y awarded at (b)] ck/or saving in 2 (d)(iv)}	l mark l mark l mark		
(e)	Printir	ng	language final language	1 mark	•	mark) mark)
				1 mark		
				1 mark 9 marks		