

036/1

INFORMATION AND COMPUTER STUDIES 1

(For Both School and Private Candidates)

Time: 3 Hours

Monday, 22nd October 2012 p.m.

Instructions

- 1. This paper consists of sections A, B and C.
- 2. Answer all questions in sections A, and B and two (2) questions from section C.
- 3. Cellular phones are not allowed in the examination room.
- 4. Write your Examination Number on every page of your answer booklet(s).



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MISSE



SECTION A (30 Marks)

	Ans	wer al	I questions in this section	on.				
1. Fe	or each of the following item	ıs (i) -	(x) choose the most c	orrect answer from the alternatives				
pr	rovided and write its letter bes	side th	e item number.					
(i)	Which among the following	g is NO	OT a file format for Gra	phics and images?				
933	A .bmp	C	.png	E gif				
	B .jpeg	D	.exe					
(ii)	The computers which are used for processing data and performing complex mathematical							
	calculations are known as							
	A Supercomputers	C	Microcomputer	E Mainframe computers				
	B Minicomputers	D	7500					
(iii)	Which one of the following is an example of a mixed cell reference in a spreadsheet?							
	A AI	C	SAI	E \$A\$B				
	B 2\$B	D	SBS1					
(iv)	Cells A4, A7, C4, C5 and	1 C7 e	ontain values 5,5,6,2 a	nd 3 respectively. Then in cell D a				
3,670	formula, =C5*(A4+A7)-(C	(4/C7)	is entered. What will b	e the value for cell D7				
	A 28	C	8	E 14				
	B 16	D	18					
(60)	The following are features of the PageMaker publication window except							
0,00	A Toolbox	C	Rulers	E Tool bar				
	B Pasteboard	D	Control pallete					
nii)	Which of the following do	vices	must be used to connec	t two computers for sharing of data?				
(VI)	A USB	C	UPS	E Gateways				
	B NIC	D	Modem					
			The Land Commence	and hu				
(vii)	The unique identifier of re-	cords	in databases is represei	E Candidate key				
	A Primary key	C	Foreign key Permanent key	E Candidate key				
	B First key	D	Permanent key					
(viii)	Which of the following is	not a	word processor?					
11111	A Word star	C	Word wrap	E Apple works				
	B Word perfect	D	Word pro					
Hara	The programs designed to	perfor	m specific tasks are ca	lled				
(1X)	A System software	Parities.	D A	pplication software				
	B Utility programs		E St	pecial programs				
	C Computer programs							
	S.		and to the system w	nit using special cables known as				
(x)	Peripheral devices are c	:onnec	D T	nit using special cables known as wisted cables				
	A Interface cables		(A) (C)	evice cables				
	B Ports cables		1. 0					
	C USB cables							

		List A	List B	
	(i)	Determines selectively through address filtering the appropriate network segment for which a message is meant for delivery.	A Wireless access point	
69	(ii)	Converts an analogue signal to digital form for transmission on a digital medium.	B Switch C Gateway	
	(iii)	A device that is configured to provide access to wide area network or Internet.	D Router	
	(iv)	Connects computers to the network so that signals can be transmitted from one computer to another without filtering.	E Repeater	
	(v)	Converts digital signals to analogue signals and vice versa.	F Bridge G Hub	
	(vi)	Creates a physical link between the computer and the transmission media.	H Modem	
	(vii)	Transmitting and receiving antenna which facilitate communication very fast.	I Codec	
•	(viii)	Interconnects different networks and directs data transfer from source to destination.	J Network Interface Card	
	(ix)	A device that recognizes signals transmitted in a channel and sends it directly to the address node without broadcasting it.	K Coaxial cable L An antenna	
	(x)	Detects signals in the surrounding which are transmitted in the form of radio waves, infrared waves or microwaves.	M Data bus	
			N Universal serial bus	

- 3. In the following items, write (T) for True statement and (F) for False statement.
 - Most website pages on the Internet are currently written in programming language.
 - (ii) Any text or alphanumeric characters entered in a cell are viewed as labels.
 - (iii) Modem communication cannot take place in half-duplex mode.
 - (iv) Function keys are used for tasks that frequently occur in programs.

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- (v) A cathode ray tube monitor looks and works much like a television screen.
- (vi) Kerning refers to fixing of particular pairs of numbers that are too close or far apart from each other
- (vii) A scanner is an example of output devices.
- (viii) A parallel interface cable can transmit eight bits of data at once.
- (ix) Windows 95 was popular because it featured cooperative multitasking. —
- (x) Notepad has got very limited formatting features.

SECTION B (50 Marks)

Answer all questions in this section.

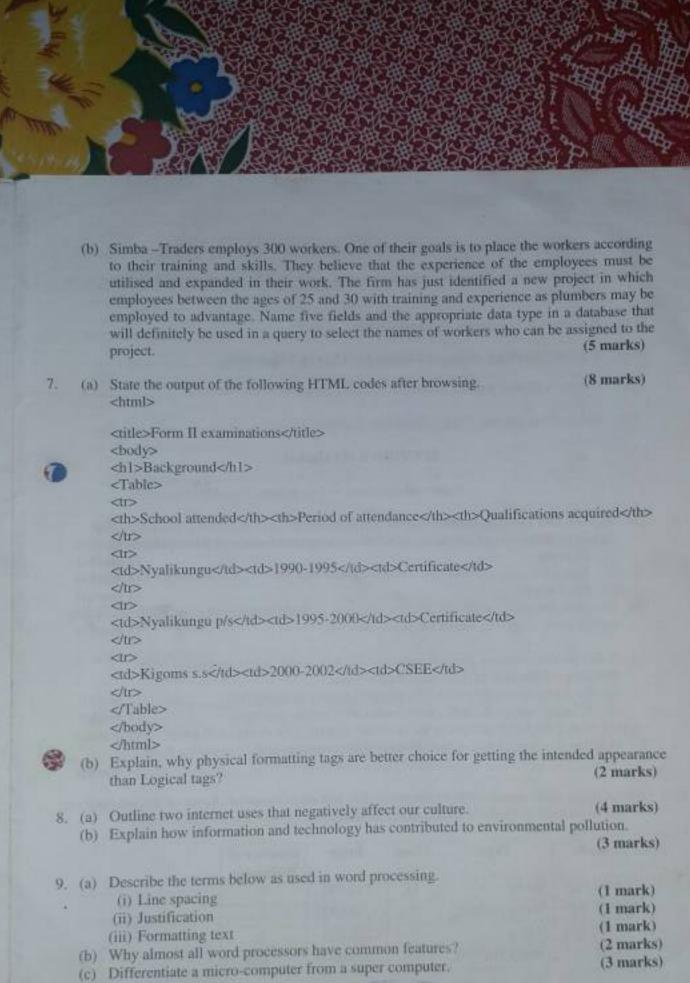
- (a) Mention four safety precautions for each type of computer component given below that should be observed to provide a conducive working environment in a computer laboratory.
 - (i) Hardware (2 marks
 - (ii) Software (2 marks)
 - (iii) Humanware (2 marks)
 - (b) Describe the two major differences between primary storage devices from secondary storage devices, giving one example for each type. (3 marks)
- (a) A Telephone Company produces paper-based directories. It has decided to offer directory information to customers via a website.
 - (i) Give two advantages to the telephone company in doing this. (1 mark)
 - (ii) What advantage does this new system offer to the customer? (1 mark)
 - (iii) Give two disadvantages to the customer that the new system will have? (2 marks)
 - (b) Describe any four career opportunities that are available in the computing field.

(4 marks)

6. (a) An estate agent keeps a file of properties for sale on a computer. Some of the information stored on each property is shown in the table below:

Code	Туре	Class	Price .	Number of Bedrooms
MSL123	House	D	142,000	2
MSL 917	Storey building	S	1,000,000	3
MSL 134	House	S	750,000	4
MSL 912	Storey building	D	2,000,000	2

- (i) State how many records are there in the file? (1 mark)
 (ii) State the names of the fields available in the table above. (1 mark)
- (iii) Which of the above fields can be set as a primary key? Why? (1 mark)





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SECTION C (20 Marks)

Answer two (2) questions from this section.

- 10. Describe how temperature, humidity and dust can cause computer damage? (10 marks)
- Trace the development of modern computers by elaborating the unique characteristics which were developed in each generation of computers. (10 marks)
- 12. Analyse the risks that a company faces by not creating backup for computerized information.
 (10 marks)



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