3.24 COMPUTER STUDIES (451)

3.24.1 Computer Studies Paper 1 (451/1)

SECTION A

Answer all the questions in this section in the spaces provided.

1	State t	he meaning of the term computer software.	(2 marks)
2	State t	hree features of fifth generation computers.	(3 marks)
3	Differentiate between home page and web page as used in the Internet.		
4	State t	hree characteristics of mainframe computers.	(3 marks)
5	The management of an organisation intends to purchase a printer. State three factors that they should consider during the purchase		
6	Describe each of the following computer cables:		
	(a)	Parallel cable;	(2 marks)
	(b)	Serial cable;	(2 marks)
7		puter technician has observed a lot of dust on computers in the computer laborative precautions that need to be put in place to avoid this.	atory. (3 marks)
8	Explai	in the term proofreading as used in word processing.	(2 marks)
9	State the function of each of the following computer keyboard keys when using a word processor:		
	(a)	End	(1 mark)
	(b)	Insert	(1 mark)
	(c)	Backspace.	(1 mark)
10	Expla	in two problems associated with the computer hard disk.	(4 marks)
11	State the spreadsheet function that can be used to obtain each of the following values in a worksheet:		
	(a)	Number of cells with values in a column.	(1 mark)
	(b)	Mean of values in a range of cells.	(1 mark)

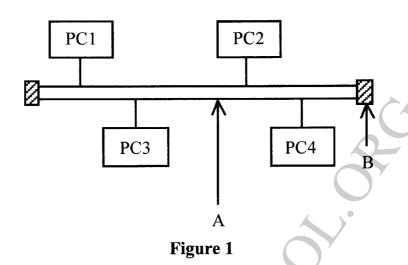


12		hool intends to install wireless media in their communication system. State thre ntages of this mode of communication media.	e (3 marks
13	State hack	e two ways in which one can create a password which cannot be easily accessed ers.	by (2 marks
14		e two ways through which a computer user can minimise Repetitive Strain Injurciated with the use of a computer.	ies (RSI) (2 marks
15	follo I. II.	tify four tasks that can be achieved using a Desktop Publishing programme from wing list of tasks. Managing students records in a school Creating a calendar	n the (2 marks
	III. IV. V. VI. VII.	Designing a building structure Creating a banner Creating a book cover Processing of examination results Creating business cards	
		SECTION B	
		Answer question 16 and any other three questions from this section.	
16	(a)	State two qualities of a good pseudocode.	(2 marks)
	(b)	With the aid of flowchart diagrams, describe each of the following programm structures:	ne control
		(i) sequence	(3 marks)
		(ii) selection	(3 marks)
	(c)	Draw a programme flowchart that would accept three numbers and find their sum is greater than 200. It adds 30 to the sum, otherwise subtracts 20 from the programme should then display the results.	
17.	(a)	Describe three arithmetic errors that may occur during computerised data pro	_
	(b)	Arnold a programmer intends to create a user input interface screen for a syst three factors that he should consider.	(6 marks) tem. State (3 marks)
	(c)	With the aid of an example in each case describe the following types of main	tenance.
		(i) adaptive; (ii) perfective; (iii) corrective.	(2 marks) (2 marks) (2 marks)

MANYAM FRANCHISE

(4 marks)

(b) **Figure 1** shows a computer, network topology. Use it to answer the questions that follow.



- (i) Identify the type of topology. (1 mark)
- (ii) State the function of each of the parts labelled A and B. (4 marks)
- (c) A computer laboratory experiences power supply problems. Describe **three** power related problems that should be addressed. (6 marks)
- 19 (a) A school has been advised to employ a database administrator. State **three** responsibilities of this personnel in the school. (3 marks)
 - (b) Explain **two** ways in which computers can be used in the transport industry. (4 marks)
 - (c) Mary was advised to partition a hard disk for her computer. Explain **two** reasons that may have necessitated this. (4 marks)
 - (d) Explain a reason for conducting each of the following studies in systems development:
 - (i) Schedule feasibility; (2 marks)
 - (ii) Technical feasibility. (2 marks)
- 20 (a) Explain three functions of an information system in an organisation. (6 marks)
 - (b) Explain **two** benefits that a company would gain from using batch processing method for data processing (4 marks)
 - (c) (i) Convert the number 11101.11, to its decimal equivalent. (3 marks)
 - (ii) Perform the following binary operation $11011_2 + 101_2$ (2 marks)

