KENYA NATIONAL EXAMINATION COUNCIL

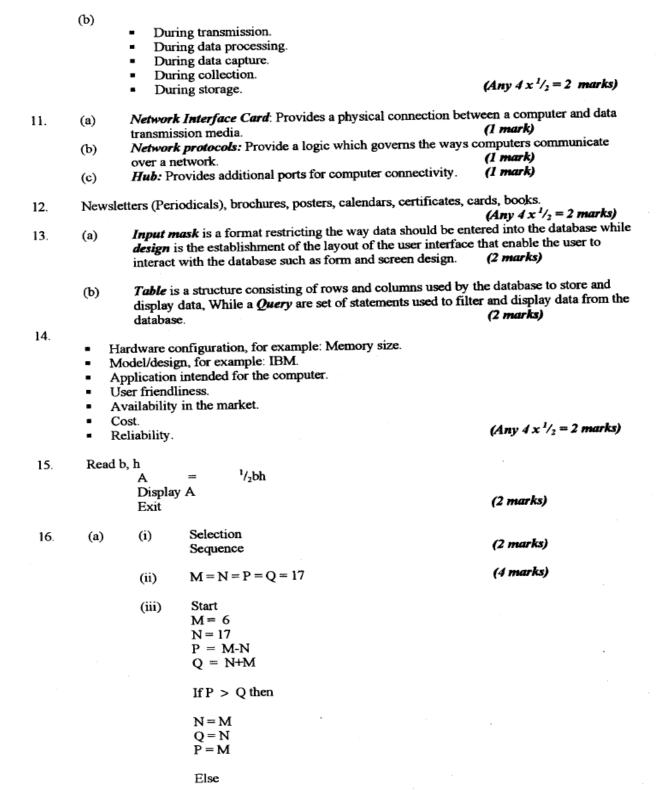
KCSE 2007

COMPUTER STUDIES
PAPER 1
MARKING SCHEME

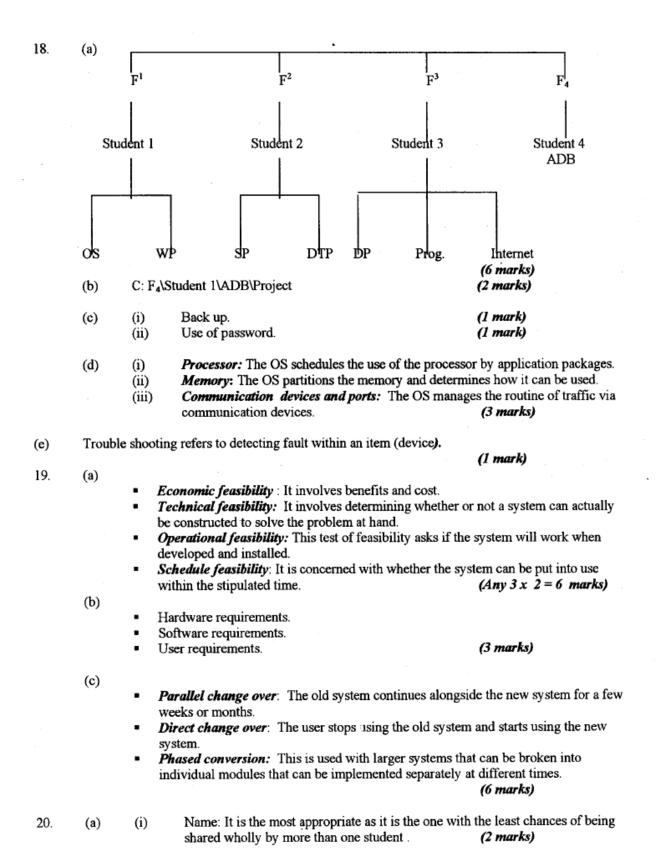
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Computer Studies Paper 1

1. When the computer is switched on, the computer does power on self testing (POST). Reads the system file in the ROM. Loads the operating system after checking the drive(s) containing it. The operating system checks the input/output devices. $(4 x^{1}/_{2} = 2 \text{ marks})$ 2. Backspace: Deletes the characters to the left of the cursor/insertion point. Moves the (a) cursor one space to the left. (1 mark) (b) Insert: Switches between insert and type over or overwrite modes. (1 mark) 3. Too many programs installed: uninstall unnecessary programs, increase main memory or upgrade the processor with a faster one. Corrupted system files: re-install the operating systems and the applications. Virus attack: load the latest anti-virus and clean the computer. $(3 \times 1 = 3 \text{ marks})$ 4. Information regarding the source of the software or a proof of origin of software. (a) (1 mark) (b) In-house developed. Outsourcing the software. Buying ready made. Free ware/ Shareware. $(4x^{1}/_{2} = 2 \text{ marks})$ 5. 5¹/₄', 3¹/₂', Zip disks, DVDs. (2 marks) 6. (a) To avoid forgetting, use password that you can easily regenerate. (1 mark) (b) To avoid hacking, use password, do not use your names, family names or one character. (1 mark) 7. Faster issuing of books. Easy access to the catalogue. Upto date records. Audit of books. Online referencing. $(Any 4x^{1}/_{2} = 2 marks)$ 8. Step 1 Binary Equivalent 23₁₀ = 10111₂ Step 2 Add 0 infront of the MSB to make it six bit number = 0101112 Step 3 Find one's complement = 101000_2 Step 4 Add I to No. 101000 #1 1010012 (4 marks) 9. Data series: The range of data from the worksheet that is used to create the graph. Axis: A vertical or horizontal line against which data is plotted. Legend. A cross reference showing how each series is represented in the chart, that is, a key. (3 marks) 10. (a) Data integrity - Ensuring the accuracy and completeness of data when it enters a system and throughout its subsequent processing. (2 marks)



M = NQ = MP = NEnd if Print N, M, P and Q End (7 marks) (b) Translating assembly language to source language (Source code object code). Linking the object code with other programs. Deleting errors. Producing object code. Allocates memory for the object code. (2 marks) 17. (a) A browser is a program that enables one to find, retrieve, view and send (i) hypertext and hypermedia document over the world wide web. A hyperlink is an element in an electronic document that links to another place (ii) in the same document or to an entirely different document. (1 mark) (iii) A hypertext document is a document containing links to the documents located on the same computer or another computer on the internet (1 mark) (b) Searching for information. Downloading. Advertising. Learning. Bookings and reservations. Communication, for example: fax, e-mail. Electronic funds transfer. $(Any 6 x^{1}/_{2} = 3 marks)$ Most appropriate topology is star topology because: (1 mark) (c) (i) it is easy to set up, configure, control. Adding new devices is easy. If a computer stops working, the network is not affected. if a piece of cable is affected, only one computer is affected. $(Any 4 x^{1}/_{2} = 2 marks)$ (ii) Connect the network. Acquire internet software, modems etc. Identify an internet service provider. Acquire/establish a communication link. Configure the system. (Any 4x 1 = 4 marks)d) (i) Personal identifier. (ii) Host/server (computer). (iii) Top level domain. (iv) The country indicator. (2 marks)



,	(ii) Name: Text Address: Text Town: Text D.O.B.: Date Marks: Number		
	Fees: Currency	$(6x^{1}/_{2}=3 marks)$	
(b)	 Forms are more user friendly. Forms have extended facilities for data entry the on tables. Database programmer. Database administrator. Database designer. Data entry clerk. Data processing manager. 	(2 marks)	
	Data processing manager.	(2x1 = 2 marks)	
(c)		A table in a database contains records which can be referenced for or sorted but not for querying. (2 marks)	
(d)	, , ,		
	Highlight the cells to be merged.		
•	Invoke the merge command.	(2 marks)	