451/1 COMPUTER Marking scheme TIME: 2 Hours

TARGETER K.C.S.E TRACKER 2016
SECONDARY EXAMS
FORM 2
COMPUTER STUDIES
Marking scheme
2 hours

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- 6) State four editing actions that may be performed on a table in a word processor. Resizing rows/columns Inserting rows/columns Deleting rows/columns ✓ Merging rows/columns Splitting rows/columns(0.5 marks each) 7) a) Explain two importance of proper cabling with respect to user safety. [2] Trunking prevents users from tripping ✓ Insulating protects users from electric shocks ✓ Insulating protects computers from short circuits Insulating prevents fires from sparks produced. (I mark each) b) State three reasons why it is necessary to use standard furniture in a computer laboratory. [3] ✓ Prevents people from straining ✓ Table sizes allow all equipment to fit ✓ Optimization /utilization of room space(1 mark each) 8) a) State two devices under operating system control. [2] ✓ Processor ✓ Memory (Ram) ✓ Storage devices ✓ Input/output devices and ports ✓ Communication devices and ports (1 mark each)
 - b) Explain any two functions of an operating system.

- Processor scheduling-It refers to allocating each job awaiting execution processor time at each given interval.
- ✓ Multi- tasking/ or multiprogramming -It is the ability of the computer to appear to run more than one program at the same time, although at a specific instant in time the CPU is dealing with only one instruction for one of the active programs
- ✓ Maintaining security-In networks and large computers each user is given a user name or ID and password to gain access to the computer system.
- ✓ Resource allocation-Each available resource in a computer is given a unique identification number called an Interrupt Request (IRQ). The O/S uses the IRQ number to identify the resource being requested.
- ✓ Managing files and Memory-The OS manages all the files on a computer. It keeps track of the location where programs and data are stored in the computer's memory.
- ✓ Managing computer resources (Input/output management)-The O/S allows application software such as word processing, to communicate with computer's hardware.
- ✓ Communication control and management-The OS is responsible for managing various
- ✓ Communication devices and provide an environment within which communication protocols operate.
- ✓ Error handling-The O/S alerts the user of errors that may arise out of illegal operations, hardware or software failure.
- ✓ Interrupt handling-An interrupt is a break from the normal sequential processing of instructions in a program. A critical request causes the processor to stop executing the current process to attend to it, before returning the control back to the process that was initially interrupted.
- Multiprocessing-It refers to a computer systems ability to support more than one process (program) at the same time. Multiprocessing operating system enables several programs to run concurrently.(2 marks each)

9) a) State four file manipulation actions perform ✓ viewing files and directories ✓ organization of information ✓ creating files/directories ✓ opening ✓ editing ✓ renaming ✓ finding/searching	ned by an operating system. [2] <pre></pre>
 b) State three reasons for partitioning a disk. For separation of the operating system Having an area for operating system For keeping frequently used progration For the purpose of backup on the safails the other will still be working. When the user intends to install moteach on a separate partition. Raising overall computer performant 	n virtual memory swapping / paging.
menu. ✓ Task manager: - It is the band where the ✓ System tray: - It has icons of tasks ru	[4] on the taskbar that the user clicks to display the start he buttons of currently running tasks are displayed unning in the background but are not displayed on the
and hard disk capacity.	emputer such as the memory capacity, processor speed and make. For example, some earlier Apple computers systems. the computer. em. e operating system. are it can support.
 11) Explain the following terms with respect to c a) Compatibility ✓ A hardware component is able to be 	computer hardware: [3] used together with or substituted for another piece of
hardware b) Upgradability	re, software or firmware, usually with a more advance

	hat unit is used to measure the capacity of the following devices:	[2]
,	Processor Hz.	
,	Memory Byte	
	Monitor resolution pixels	
a)	Projector lumens (0.5 mark each)	
10\ D:		
	stinguish between: Power cable and interface cable	
,		[2]
	Power cable connects powered components to the mains supply, interface cables connects peripheral devices to the system unit.	
b)	Parallel port and serial port	[2]
✓	Serial ports also known as COM or RS232 ports, support transmission of data one bit at a	time
٠,	while parallel cables transmit information simultaneously	
	System software and application software	[2]
•	System software manages and supports the resources and operations of a computer system while application packages are programs designed to carry out specific tasks.	
q)	Impact printers and non-impact printers	ΓOΙ
	In impact printing, the printing head element comes into physical contact with the statione	[2]
	An inked ribbon placed between the stationery and the printing head elements while non-	y.
	impact printing, the printing head element does not come into physical contact with the	
	stationery, but by other means like thermal or electrostatic. (2 marks each NB: distinction m	ust
	be proved. Either 2 marks or no marks)	••••
14) -)		
14) a).	Explain two classifications of software according to End-User-License (EUL)	[4]
•	Open source or non-proprietary software-refers to software whose source code (programm set of instructions) is freely made available to users. The users are encouraged to use, modified to use the contract of the contract o	ed
	and distribute the product.	y
✓	Proprietary software are those software whose source code is hidden from users. Modificat	inne
	are only made by the software manufacturers.	10119
✓	Freeware are software products that are freely made available to the user(2 marks each)	
	•	
	b) State any four factors to consider when purchasing software	[4]
√	Authenticity-This refers to genuineness, validity and or legitimacy of an item.	
✓	Documentation-It refers to the manual prepared by the developer having details on how to	
./	install, use and maintain the software.	
	User needs Reliability and security	
	User friendliness	
	Cost	
	Compatibility and system configuration	
✓	Software compatibility	
✓	Portability	
\checkmark	Upgradability	
(1 mark each)	
15) I ic	t any four soft copy output devices	[47
	Light Emitting Diodes	[4]
	Multimedia Projectors	
✓	Sound Output devices	
✓	Monitors (1 mark each)	

- 16) State three factors that affect the time taken to access the data on a hard disk.
 - 131 ✓ Seek time: - The time taken by the Read/Write head to locate the right track which contains the required data. For example, if data required is on track 64. The access arm must move the head from the current track to track 64.
 - ✓ Rotational delay or Latency: It is the time taken for the disk to rotate from its present
 - position to the position on the track at which the data starts.

 Transmission time (Data transfer time): The time taken to transmit the data to the main storage.

(I mark each)

- 17) List six examples of publications designed using Desk Top Publisher (DTP)
 - ✓ Cards

 - CertificatesNewspapers
 - ✓ Books
 - √ Calendars
 - ✓ Business cards
 - ✓ Journals
 - ✓ Flyers and Posters
 - √ Newsletters

(0.5 marks each)