KASNEB

DICT LEVEL II

COMPUTER SUPPORT AND MAINTENANCE

PILOT PAPER

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		COMPUTER SUPPORT AND MAINTENANCE	"In'o
		PILOT PAPER	my.
September 2015.			Time Allowed: 3 hours.
Ansv	ver ALL	questions. Marks allocated to each question are shown at the end of the question.	
QUE (a)	ESTION (i)	ONE Describe the function of a "logic pulser".	(2 marks)
	(ii)	Highlight six personal computer (PC) problems related to the power supply.	(6 marks)
(b)	Outline	e six factors to consider when selecting a motherboard.	(6 marks)
(c)	Tabula	te three key differences between DRAM and SRAM.	(6 marks) (Total: 20 marks)
QUE (a)	STION Differe	TWO entiate between "incremental backups" and "differential backups".	(4 marks)
(b)	Cosmi	c rays and other radiation events are the major cause of soft errors.	
	Requir List fiv	red: ve other causes of soft errors.	(5 marks)
(c)	Explain	n the function of transient response as used in power supply.	(2 marks)
(d)	(i)	Describe a protected mode processor.	(3 marks)
	(ii)	Write six key features of a PCI express bus.	(6 marks) (Total: 20 marks)
QUE (a)	CSTION (i)	THREE Describe a memory mapped file.	(2 marks)
	(ii)	Differentiate between persistent memory mapped file and a non-persistent memory r	mapped file. (4 marks)
(b)	Highliş	ght five events that could be diagnosed as resource conflicts.	(5 marks)
(c)	Outline four main local buses found in a computer. (4 m		(4 marks)
(d)	· · ·		(5 marks) (Total: 20 marks)
QUE (a)	STION (i)	FOUR Define a "refurbished computer".	(1 mark)
	(ii)	Highlight two advantages and three disadvantages of refurbished computers.	(5 marks)
(b)	Differe	entiate between an "implied warranty" and an "express warranty".	(4 marks)
(c)	Describe the following types of flat panel display technology:		
	(i)	Liquid crystal panels.	(5 marks)
	(ii)	Plasma panels. TD23	(5 marks) (Total: 20 marks) Pilot Paper Page 1 Out of 2

QUESTION FIVE Explain functions of the following software programs: (2 marks) (i) Scandisk. (2 marks) (ii) Chkdsk. (6 marks) Explain three challenges of electronic waste management in developing countries. (b) (2 marks) Identify two motherboard form factors. (c) (i) Outline the steps involved when installing a motherboard on a computer. (8 marks) (ii) (Total: 20 marks)