

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

SECONDARY EDUCATION CERTIFICATE LEVEL 2018 MAIN SESSION

SUBJECT:	Information Technology	
PAPER NUMBER:	Controlled – Unit 3	
DATE:	11 th April 2018	
TIME:	10:00 a.m. to 11:35 a.m.	

THIS PAPER SHOULD BE RETURNED TO THE INVIGILATOR AFTER THE EXAMINATION.

Name of candidate	
I.D. number	
School	
Class	

Answer **ALL** questions in the space provided.

Scenario

Question 1

You have just been employed as an IT technician at a local law firm. You notice that the computers being used are all rather old and would benefit from an upgrade.

K1 (4 marks)

____(1)

You thought of a number of upgrades that would be beneficial, however the business o cannot understand what they are for. For each of the upgrades listed below, write down reason for the upgrade:	
a. an additional internal HD of 2TB;	
	(1)
b. the purchase of an Uninterrupted Power Supply (UPS) for each PC;	
	(1)
c. change of CPU from Intel Core i3 to Intel Core i5;	
	(1)
d. an additional 4GB of RAM.	
	(1)
Question 2 C1 (6 ma	rks)
a. You have been asked to describe what are the implications, that are induced by upgrading of the computers in relation to:	the
i. hardware compatibility;	

ii. decommissioning of hardware;	
	(1)
iii. migration of data;	
	(1)
iv. software compatibility.	_
	(1)
 b. Pick any TWO of the implications described in questi for EACH. 	on 2a and provide a practical example
Implication Chosen:	
Practical Example:	
	(1)
Implication Chosen:	(1)
Practical Example:	
	(1)

Please turn the page.

Question 3

Describe \mathbf{TWO} risks involved when upgrading hardware components. For each risk provide an example of how it can happen.	mentioned,
Risk 1:	
	(1)
Example for Risk 1:	
	443
Risk 2:	(1)
Example for Risk 2:	(1)
	(1)
Question 4 C2	(6 marks)
The business owner would like you to start the upgrades straight away, however yo to highlight the importance of taking precautions before the upgrades can occur.	u first need
For EACH of the precautions listed below, discuss how it helps mitigate the risks:	
a. use of anti-static equipment;	
	(1)

K3 (4 marks)

b. use of appropriate tools;	
	(1)
c. handling equipment with care;	
	(1)
d. perform backups before starting an upgrade;	
e. use of data recovery tools;	(1)
f. wear appropriate clothing.	(1)
	(1)

Please turn the page.

Question 5 K5 (4 marks)

Your colleague will be helping you with the office computers upgrade. In order to ensure that the work is done properly you decide to write a list of working procedures to follow and attach it to the wall.

Outline EIGHT correct working procedures that must be followed during the upgrade of the computers.

Question 6	K8 (4 marks)
	(0.5)
Working procedure 8:	
Working procedure 7:	
Working procedure 6:	
Working procedure 5:	
Working procedure 4:	
Working procedure 3:	
Working procedure 2:	
	(0.5)
Working procedure 1:	

You have just finished installing the upgrades, however not everything is working well. Read the errors listed below and identify **TWO** possible issues for each error.

- a. The monitor connected to the new graphics card is showing a 'No signal' error.
- Possible issue 1: i. ____(1)

	ii. F	Possible	issue 2:								
_											(1)
b.	One	of the c	omputer	s is not do	oing ar	ything up	on the p	oress of th	ne power l	outton.	
	i. F	Possible	issue 1:								
_											(1)
	ii. F	Possible	issue 2:								
_											(1)
Qı	ıesti	on 7								K10	(4 marks)
Fo	llowir	ng the	upgrade	someone	has	complaine	d that	a numbe	r of prod	ucts are	asking for

Following the upgrade someone has complained that a number of products are asking for registration. In order to show why registration is important, use the table below and list **FOUR** advantages that are associated with registering products.

	Advantages
a.	(1)
b.	(1)
C.	(1)
d.	(1)

Please turn the page.

Question 8 C5 (6 marks)

During the upgrade process you have kept a logbook detailing the type of maintenance carried out. Help the owner understand the different types of maintenance by providing **THREE** practical measures for each type of maintenance described below.

a. Explain **THREE preventive** maintenance measures that can be applied to ensure the smooth

running of the computers.	
Measure 1:	
	(1)
Measure 2:	
	(1)
Measure 3:	
	(1)
The computers had not been upgraded for several year	rs before you were employed. Explair
THREE adaptive maintenance measure that can be	taken to ensure that old files and
peripherals can still be used with the new system.	
Measure 1:	
	(1)
Measure 2:	
	(1)
Measure 3:	
	(1)