Index Number:\_\_\_\_\_ SEAC05/s1.23s



MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

#### SECONDARY EDUCATION APPLIED CERTIFICATE LEVEL 2023 SUPPLEMENTARY SESSION

SUBJECT: Information Technology

PAPER NUMBER: Synoptic – Unit 1 DATE:  $1^{st}$  November 2023 TIME: 2:30 p.m. to 4:35 p.m.

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

### For examiners' use only:

Question	1	2	3	4	5	6	Total
Score							
Maximum	6	8	12	8	8	8	50

Answer **ALL** questions in the space provided. You may answer either in English or in Maltese.

#### **Scenario**

- 'Travel Fun' is a well-known travelling agency.
- Several workers work with the agency.
- Jane, the director of the agency, makes sure that all employees are provided with a modern computer system to work on.

Question 1	K-1 (6 marks)
a. List <b>FOUR</b> different types of computer	systems, apart from desktop computer.
Computer system 1:	(0.5)
Computer system 2:	(0.5)
Computer system 3:	(0.5)
Computer system 4:	(0.5)
<ul> <li>keeping a digital copy of the pap</li> <li>allowing employees to listen to m</li> <li>working in their same office.</li> </ul>	cater for the new needs of the agency, which include: per on which feedback is provided; nusic whilst working as long as they do not disturb others appropriate input and output device Jane should buy.
Plotter Headphor	nes Joystick Scanner MICR
Appropriate Input Device:	(1)
Appropriate Output Device:	(1)
c. 'Travel Fun' stores data on USB flash storage device.	n drives. Outline the following <b>TWO</b> properties of this
Longevity of device:	

(1)

Acces	s speed:	
		(1)
Questio	on 2	K-3 (8 marks)
comp	uters.	are new, the agency also owns some old desktop
• Jane v	would like to upgrade these old desktop	computers.
a. Label	the internal hardware components show	wn by each of the following images.
i.		(0.5)
	Source: https://www.crucial.com/	
ii.		(0.5)
iii.	Source: https://www.amazon.in/	(0.5)
	Source: https://www.redhat.com/	
iv.		(0.5)

Source: https://www.technologyuk.net/

This question continues on next page.

(1)
(1)
<sup>(2)</sup> (
(2)
narks)

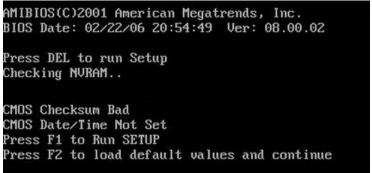


Figure 1: Boot-up error

Amended from: https://shorturl.at/bvKT8

a. Identify the hardware problem which has generated the boot-up error report shown in Figure 1.

Hardware problem: \_\_\_\_\_\_ (4)

Describe <b>TWO</b> possible Figure 1.	e causes which might have generated the boot-u	up error report shown in
		(2)
Possible cause 2:		
		(2)
Possible solution for c	ause 1:	
		(2)
Possible solution for c	ause 2:	
		(2)

Please turn the page.

Question 4 K-6 (8 marks)

• While carrying out the computer upgrade, the technician had to solder some electronic components.

- Different equipment was used during soldering.
- a. Match the following soldering equipment with its use, by writing the number next to each use.

Soldering equipment		Use		
i.	Source: https://eshop.wuerth.com.mt	Used to clean the tip of the soldering iron.  (0.5)		
ii.	Source: https://malta.desertcart.com	Used to connect components to metal. (0.5)		
iii.	Source: https://www.phywe.com	Used to heat the solder. (0.5)		
iv.	Source: https://pcbsmoke.wordpress.com	Used to measure the flow of electrical power.  (0.5)		

outline <b>TWO</b> precautions which should be taken to minimise risks when so	
recaution 1:	
recaution 2:	
Describe in <b>FIVE</b> steps the procedure of soldering a solder joint.	
	(2)
. Describe in <b>FIVE</b> steps the procedure of desoldering a solder joint.	

Please turn the page.

Question 5	K-7 (8 marks)
Following the upgrade, Jane asked the technician to install software	e on the desktop computers.
a. Name <b>TWO</b> different types of software.	
Type of software 1:	(1)
Type of software 2:	(1)
b. List <b>TWO</b> examples for each type of software named in Question	า 5a.
Examples for type of software 1	
Example 1:	(0.5)
Example 2:	(0.5)
Examples for type of software 2	
Example 1:	(0.5)
Example 2:	(0.5)
Difference 1:	
	(2)
Difference 2:	(2)

Question 6	K-8 (8 marks)
Jane asked the technician to create different user accounts.  Jane was given an administrator account.	
a. List <b>TWO</b> different types of local user accounts, apart from administrator.	
Local user account 1:	(1)
Local user account 2:	(1)
Describe the purpose of each local user account listed in Question 6a.	
Purpose of local user account 1:	
	(1)
Purpose of local user account 2:	
c. Outline <b>TWO</b> advantages and <b>TWO</b> disadvantages of online user accounts.	
Advantage 1:	
	(1)
Advantage 2:	
	(1)
Disadvantage 1:	
	(1),
Disadvantage 2:	
	(1)

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