



L-Università  
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE  
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL  
2023 SUPPLEMENTARY SESSION**

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SUBJECT: **Health and Social Care**  
PAPER NUMBER: Synoptic – Unit 2  
DATE: 3<sup>rd</sup> November 2023  
TIME: 5:30 p.m. to 7:35 p.m.

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

**For examiners' use only:**

Question	1	2	3	4	5	6	7	8	Total
Score									
Maximum	6	12	8	8	8	8	8	12	70

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

**Section A: Anatomy and Physiology of the Human Body.**

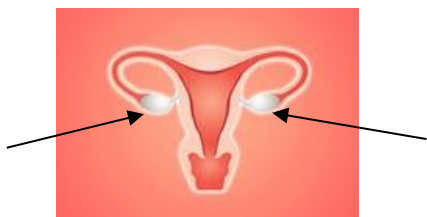
**Scenario**

- Nadine is a 2<sup>nd</sup> year Medical Student.
- This year the medical students are visiting the schools and organising workshops with Year 10 students to create awareness about the human body.

**Question 1**

**K-1 (6 marks)**

a. Label the following **FOUR** key organs of the human body.



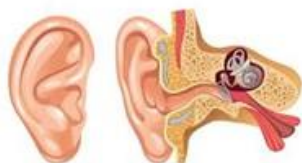
(Source: <https://www.everlywell.com/>)

Organ 1: \_\_\_\_\_



(Source: <https://www.freseniusmedicalcare.com/>)

Organ 2: \_\_\_\_\_



(Source: <https://www.okoa.org/articles/>)

Organ 3: \_\_\_\_\_



(Source: <https://www.twinkl.com/mt/>)

Organ 4: \_\_\_\_\_ (2)

b. Identify from the list below the position of each of the organs labelled above.

Below the rib cage, on each side of the spine.	Both on the right and left side of the uterus in the lower abdomen.	Upper left part of the abdomen.	On either side of the head.
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Organ 1  
Position: \_\_\_\_\_ (0.5)

Organ 2  
Position: \_\_\_\_\_ (0.5)

Organ 3  
Position: \_\_\_\_\_ (0.5)

Organ 4  
Position: \_\_\_\_\_ (0.5)





Vital sign 3: \_\_\_\_\_

Normal Range: \_\_\_\_\_ (0.5)

Vital sign 4: \_\_\_\_\_

Normal Range: \_\_\_\_\_ (0.5)

c. Below are the readings of an older adult and a baby. Interpret whether these signs are High/ Low or Within the Expected Range.

Older Adult	
Reading	High/ Low/ Within Expected Range
105/70mmHg	
90 beats per minute	
20 breaths per minute	
37 °C	

(2)

Baby	
Reading	High/ Low/ Within Expected Range
120/100mmHg	
70 beats per minute	
25 breaths per minute	
35 °C	

(2)

8

**Question 4**

**K-4 (8 marks)**

a. List a sign/symptom that might be present when readings of each vital sign is outside the acceptable range.

Vital sign 1: \_\_\_\_\_

Sign/symptom: \_\_\_\_\_ (0.5)

Vital sign 2: \_\_\_\_\_

Sign/symptom: \_\_\_\_\_ (0.5)

***This question continues on next page.***

Vital sign 3: \_\_\_\_\_

Sign/symptom: \_\_\_\_\_ (0.5)

Vital sign 4: \_\_\_\_\_

Sign/symptom: \_\_\_\_\_ (0.5)

b. Identify a consideration from the ones provided below that must be taken before each measurement of a vital sign is taken.

Assess the most adequate place from where to take the reading
Check whether the individual has washed his hands
Ensure individual is at rest      Make sure equipment is not sterilised
Ask individual whether s/he is an athlete      Settle patient down and reassure him/her

Vital sign	Consideration
Vital sign 1: _____	_____ _____ (0.5)
Vital sign 2: _____	_____ _____ (0.5)
Vital sign 3: _____	_____ _____ (0.5)
Vital sign 4: _____	_____ _____ (0.5)

c. Indicate which underlying factors may Nathan’s mum have since:

i. her blood pressure seemed high;

\_\_\_\_\_  
\_\_\_\_\_ (2)

ii. her pulse rate was low.

8

(2)

**Section B: Health and Safety**





**Scenario**

- Every professional needs to know about Health and Safety in the workplace.
- Working in a Health and Social Care environment demands knowledge of signs and symbols, equipment, infection prevention and control, as well as First Aid.

**Question 5**

**K-6 (8 marks)**

a. Match signs and symbols by drawing arrows from the picture to the meaning.

	SIGN/SYMBOL	Meaning of sign/ symbol
i.	 (red disk with red diagonal line)	Mandatory sign
ii.	 (yellow triangle)	Safe condition sign
iii.	 (blue circle with white picture)	Prohibition sign
iv.	 (green square with white picture)	Warning sign

(Source: <https://www.bing.com/images/search?view=detailV2&ccid>)

(2)

b. From the list below, identify **FOUR** safety equipment which should be used to minimise or eliminate the risks in a Health and Social Care environment.

hoist chairs	scarves bed rails	hair spray	safety installations in bathrooms such as rails	safe disposal boxes	nappies
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Equipment 1: \_\_\_\_\_ (0.5)

Equipment 2: \_\_\_\_\_ (0.5)

Equipment 3: \_\_\_\_\_ (0.5)

Equipment 4: \_\_\_\_\_ (0.5)

c. Nadine was working in Mater Dei during the Covid 19 pandemic. Determine **TWO** pieces of equipment that she needed to have at hand and **TWO** symbols that needed to be followed to ensure safety.

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(4)

**Scenario continued**

- In every workplace, there should be a First Aid box present on the premises.
- This is used for any emergency that the staff or service users may have.

**Question 6**

**K-9 (8 marks)**

a. From the list below, identify **EIGHT** items that are necessary for a First Aid Box by circling them.

Cough syrup	Surgical gloves	Sterile eye pads with attachment.	Safety pins	Sterile dressings in various sizes.	Anti-inflammatory tablets
Protection shield for artificial respiration	Hand moisturising cream	Roller bandages of different sizes	Wrapped gauze pads	Antiseptic cream	Triangular bandages

(2)



b. Outline the function of any **FOUR** of the items identified in question 6a.

Item 1: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.5)

Item 2: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.5)

Item 3: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.5)

Item 4: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.5)

c. Describe **TWO** reasons why it is important to know how to use the items in the First Aid Box.

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**Section C: Activities of Daily Living**

**Scenario**

- The medical students had their six-week placement to attend.
- Nadine was sent to a medical ward.
- Most patients in this ward are very sick, and they spend several weeks in the hospital.
- It is important that all staff working with these patients know about daily living activities to help the patients meet their needs.

**Question 7**

**K-8 (8 marks)**

a. List **FOUR** activities of daily living.

Activity of daily living 1: \_\_\_\_\_ (0.5)

Activity of daily living 2: \_\_\_\_\_ (0.5)

Activity of daily living 3: \_\_\_\_\_ (0.5)

Activity of daily living 4: \_\_\_\_\_ (0.5)

b. Mention **TWO** reasons why assessing activities of daily living is important.

Reason 1: \_\_\_\_\_ (1)

Reason 2: \_\_\_\_\_ (1)

- c.
- One of the patients in the medical ward is called Peter.
  - Peter is suffering from Parkinson’s disease.
  - He uses a walking frame to walk but spends most of his time in the armchair.
  - He is finding difficulty in expressing himself.

Identify **FOUR** supports needed by Peter in carrying out his daily living activities independently.

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**Question 8**

**C-4 (12 marks)**

Due to a lack of mobility, people like Peter may develop further health problems.

- a. Identify **FOUR** potential health problems from the ones provided below which people with a mobility impairment are likely to experience.

Diabetes	Unsteadiness	Muscle weakness
Joint problems	Infections	Parkinson’s disease

- Health problem 1: \_\_\_\_\_ (1)
- Health problem 2: \_\_\_\_\_ (1)
- Health problem 3: \_\_\_\_\_ (1)
- Health problem 4: \_\_\_\_\_ (1)

- b. Apart from health problems mentioned above, Peter may develop pressure sores since he is not moving much.

- i. Discuss **TWO** causes of pressure sores.

Cause 1: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (1)

Cause 2: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

ii. Discuss **TWO** areas on the body where pressure sores are likely to occur.

Area 1: \_\_\_\_\_  
\_\_\_\_\_ (1)

Area 2: \_\_\_\_\_  
\_\_\_\_\_ (1)

c. After some months, Peter was so weak that he was not walking at all and ended up spending his time in bed or in the wheelchair.  
Explain **TWO** ways how pressure sores can be prevented in Peter's case.

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