



**L-Università
ta' Malta**

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2025 MAIN SESSION**

SUBJECT:	Health and Social Care
PAPER NUMBER:	Controlled – Unit 2
DATE:	13 th May 2024
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.

SECTION A

Scenario 1:

- Mark is a 60-year-old man.
- Mark went to the local Health Centre after he fainted.
- The doctor examining him checked his pulse rate.

Question 1

C-1 (6 marks)

a. Outline how the respiratory and circulatory systems interact with each other in the human body.

(2)

b. Describe in more depth the interaction between the respiratory and circulatory system. Make sure to mention **ONE** organ from **EACH** system.

(2)

- c.
- The doctor found that Mark’s pulse rate was low.
 - He believes that this might be a reason why Mark fainted.

Explain how the respiratory and circulatory system interacted with each other in this situation.

(2)

Question 2

K-4 (4 marks)

- a. • The doctor took Mark’s vital signs.
 - He also recorded other patients’ vital signs readings who visited in the clinic throughout the day.
- i. List **ONE** sign/symptom that might be present when each vital sign given in Table 1 is above the normal range.

Table 1: Vital Signs above normal range

Vital Sign	Sign/symptom
Blood Pressure:	(0.25)
Breathing Rate:	(0.25)

- ii. List **ONE** sign/symptom that might be present when each vital sign given in Table 2 is below the normal range.

Table 2: Vital Signs below normal range

Vital Sign	Sign/symptom
Pulse:	(0.25)
Temperature:	(0.25)

- b. • A mother brought her 6-year-old son to the clinic.
- The doctor needed to take his vital signs.
- The mother held her son on her lap.
- The doctor talked to the son and waited for the child to rest before starting.
- A good explanation was given to the child so that he would know what is going to happen.
- Questions were asked to the mother about any sports being practiced by her son.
- The doctor decided to take the temperature from the mouth.

From the case scenario above, identify a consideration that must be taken before measuring each vital sign below.

Breathing rate: _____ (0.25)

Temperature: _____ (0.25)

Pulse: _____ (0.25)

Blood Pressure: _____ (0.25)

- c. Indicate **ONE** underlying factor that influences the reading of the vital signs written below.

High body temperature: _____ (1)

Slow heartbeat: _____ (1)

Question 3

C-4 (6 marks)

- a. • During one of the shifts, a wheelchair user patient was brought in the Health Centre.
- Karmelo, the patient, is complaining from pain especially due to pressure sores.

Apart from pain and pressure sores, identify **TWO** other potential health problems which Karmelo may end up suffering from.

Health Problem 1: _____ (1)

Health Problem 2: _____ (1)

- b. • Karmelo told the doctor that he lives with his elderly mother.
- Although he can walk around using a frame, he spends his day mostly in his wheelchair watching TV.
- He uses a diaper for toileting, so his mother does not have to take him to the bathroom each time.
- His mother therefore wipes him, removes his diaper, and moves him to his bed at night.
- All the rooms and sanitary ware in the bathroom have been made accessible but he is not sure how to use them.

Discuss **TWO** causes of pressure sores in Karmelo’s case and **TWO** areas where they are likely to develop.

Cause and area 1: _____

_____ (1)

Cause and area 2: _____

_____ (1)

- c. Explain **TWO** ways how Karmelo could avoid having too many pressure sores from the scenarios in Questions 3a and 3b.

c. The below picture shows one of the doctors' offices in the clinic. Identify **FIVE** safety measures, that one should keep in mind when planning an office at a clinic.







Source: <https://thsawc.org/files/12-15-16%20Spot%20the%20hazards%20game.pdf>

(2)

Question 5

K-6 (4 marks)

a. Match the signs and symbols used in Health and Social Care environment with their meaning. Write the corresponding letter in the 'Answer' column.

Signs and Symbols	Answer (A,B,C,D)	Meaning
 <p>(Source: https://image.shutterstock.com)</p> <p>(yellow triangle)</p>		<p>A Warning Signs</p>
 <p>(Source: https://image.shutterstock.com)</p> <p>(green rectangle with white text/picture)</p>		<p>B Prohibition Signs</p>
 <p>(Source: https://image.shutterstock.com)</p> <p>(blue circle with white picture)</p>		<p>C Mandatory Signs</p>
 <p>(Source: https://image.shutterstock.com)</p> <p>(red disk with red diagonal line)</p>		<p>D Safe Condition Signs</p>

(1)

This question continues on next page.

b. Identify and circle **FOUR** safety equipment which can be used to eliminate risks in a clinic from the ones provided below.

Maps	Bathroom rails	Protective wear	Carpet	Safe disposal boxes
	Vending Machine	Antibacterial disinfectant	Coloured Paper	TV

(1)

- c.
- The clinic is refurbishing the bathrooms.
 - Currently it is lacking important equipment.
 - The clinic is visited by a lot of people with different needs.
 - Keeping good hygiene level is essential in a clinic.
 - Unfortunately, there were instances in which people used the bathroom to smoke.

Considering the above scenario, determine **TWO** pieces of equipment to be installed in the bathrooms, and **TWO** symbols that must be at hand to ensure safety.

Equipment 1: _____ (0.5)

Equipment 2: _____ (0.5)

Health and Safety symbol 1: _____ (0.5)

Health and Safety symbol 2: _____ (0.5)

Question 6

K-9 (4 marks)

- a.
- Every week, the staff checks the first aid boxes.
 - In one of the boxes, there were three pairs of surgical gloves, medicine, six safety pins, sterile eye pads with attachment, tooth paste, two triangular bandages and liquid soap.

Identify **FOUR** different items that are required in a first aid box from the scenario above.

Item 1: _____ (0.25)

Item 2: _____ (0.25)

Item 3: _____ (0.25)

Item 4: _____ (0.25)

b. Outline the function of **TWO** items found in the first aid box.

Function of item 1: _____
_____ (0.5)

Function of item 2: _____
_____ (0.5)

Information 2: _____
_____ (0.2)

Information 3: _____
_____ (0.2)

Information 4: _____
_____ (0.2)

Information 5: _____
_____ (0.2)

- c.
- The clinic reception receives a number of calls each day.
 - First call was about a child who was eating some popcorn and some of it got stuck in her throat.
 - Second call was asking for a doctor to go for a meeting.
 - Third call was about a man who fell in the street.

From the scenarios above identify **TWO** situations which might require help from a health care professional.

_____ (2)

Question 8

C-5 (6 marks)

- a. Identify **FOUR** different roles that different individuals can assume when there is an emergency situation.

Role 1: _____ (0.5)

Role 2: _____ (0.5)

Role 3: _____ (0.5)

Role 4: _____ (0.5)

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