L-Università
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2021 SUPPLEMENTARY SESSION**

SUBJECT:	**Health and Social Care**
PAPER NUMBER:	Synoptic – Unit 2
DATE:	3rd November 2021
TIME:	9:00 a.m. to 11:05 a.m.

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

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

Section A

- Gilbert is an MCAST student following a course in Health and Social Care.
- As part of his vocational studies, he started attending a work placement at Mater Dei Hospital.
- Dr Camilleri was assigned to be his mentor on placement.
- When Gilbert and Dr Camilleri met, the doctor started asking him on the human body to test his knowledge.

Question 1   **K-1 (6 marks)**
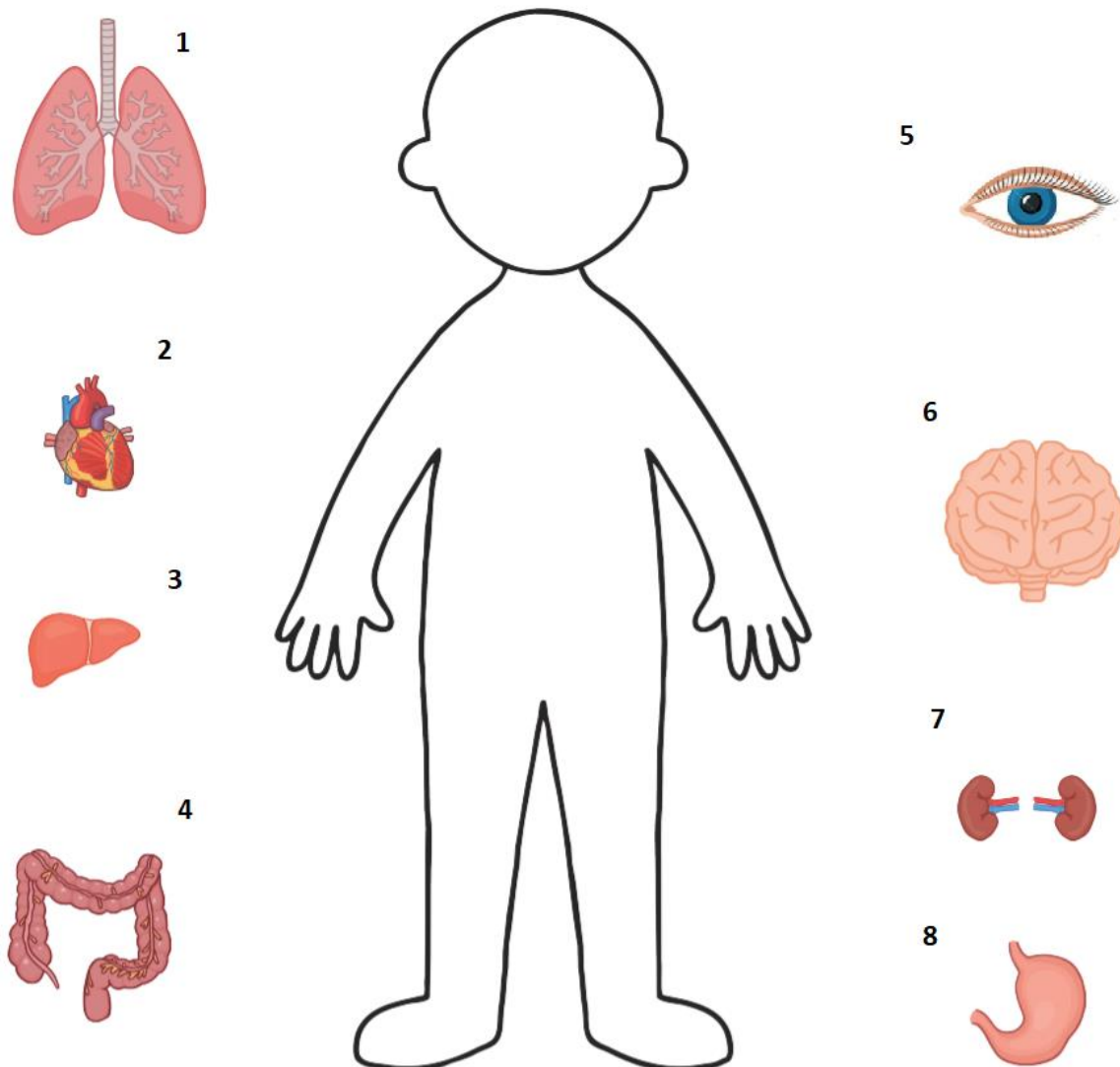
Look at the picture of the human body in Figure 1.

Figure 1: The Human Body (Source: https://content.twinkl.co.uk)

a. Write down the name of each organ shown in Figure 1, in correspondence to the number given.

Organ 1: _____(0.25)

Organ 2: _____(0.25)

Organ 3: _____(0.25)

Organ 4: _____(0.25)

Organ 5: _____(0.25)

Organ 6: _____(0.25)

Organ 7: _____(0.25)

Organ 8: _____(0.25)

b. Identify the position of each organ shown in Figure 1 by drawing a line between the organ and its position in the body. (2)

c. Describe **FOUR** organs mentioned in Question 1a and the core function of each.

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_____(2)

Question 2   C-1 (12 marks)

a. The main systems in our body interact with one another. Outline how the following systems interact with each other.

Cardiovascular/ Circulatory and respiratory systems:

_____

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_____(4)

b. Describe in more depth the relationship between the systems mentioned below by making sure to refer to at least one organ from each system.

Musculoskeletal and nervous systems:

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_____(4)

c.
- Gilbert was asked to talk to a teenager who had an injury whilst playing football.
- This teenager fell and hurt his ankle during the game.

Explain how the musculoskeletal and nervous systems interact with each other when a person gets injured.

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_____ (4)

Question 3   K-4 (8 marks)

a. List **TWO** signs/symptoms for **EACH** of the vital signs when the readings are outside the normal range. Some signs might be used twice.

Blood Pressure: Above: _____(0.25)

Below: _____ (0.25)

Temperature: Above: _____(0.25)

Below: _____ (0.25)

Pulse: Above: _____(0.25)

Below: _____ (0.25)

Breathing: Above: _____(0.25)

Below: _____ (0.25)

b. Identify a consideration that must be taken before measuring each vital sign.

ensure individual is at rest   asking the patient if he usually coughs assess the most adequate place from where to take the reading   check if patient has cuts settle patient down and reassure him/her   ask individual whether s/he is an athlete or not

Blood Pressure: _____ (0.5)

Temperature: _____ (0.5)

Pulse: _____ (0.5)

Breathing: _____ (0.5)

c. Indicate **ONE** underlying factor that influences each of the following vital signs readings.

Low Blood Pressure: _____ (1)

High body temperature: _____ (1)

Rapid Pulse: _____ (1)

Irregular Breathing: _____ (1)

Question 4   C-2 (12 marks)

a. Outline **FOUR** reasons why it is important to take measurements of the vital signs.

Reason 1: _____

_____(1)

Reason 2: _____

_____(1)

Reason 3: _____

_____(1)

Reason 4: _____

_____(1)

b. List **FOUR** reasons why the readings of the vital signs might not be within an acceptable range.

Reason 1: _____ (1)

Reason 2: _____ (1)

Reason 3: _____ (1)

Reason 4: _____ (1)

c. Explain **TWO** common reasons why the vital signs might not be within the acceptable range.

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_____ (4)

Section B

- As part of his daily routine Gilbert needs to do ward rounds.
- During these ward rounds he noticed some hazardous situations.

Question 5   K-5 (8 marks)

a. List **FOUR** different types of hazards that might be found in Health and Social Care environments.

Hazard 1: _____ (0.5)

Hazard 2: _____ (0.5)

Hazard 3: _____ (0.5)

Hazard 4: _____ (0.5)

This question continues on next page.

(Source: https://www.safework.nsw.gov.au)

b. Describe **TWO** hazards found in the picture above and mention **ONE** associated risk for **EACH**.

i. _____

_____

_____

_____ (1)

ii. _____

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_____

_____ (1)

c. Refer to the picture above and identify **FOUR** safety measures to keep in mind when designing a waiting room in a hospital area.

Measure 1: _____ (1)

Measure 2: _____ (1)

Measure 3: _____ (1)

Measure 4: _____ (1)

Question 6   **K-7 (8 marks)**

Gilbert decided to have a look at some Health & Safety legislation to help with the current situation.

a. Name **FOUR** Health and Safety legislations Gilbert could refer to.

Legislation 1: _____ (0.5)

Legislation 2: _____ (0.5)

Legislation 3: _____ (0.5)

Legislation 4: _____ (0.5)

b. State the main aim of any **TWO** legislations mentioned in Question 6a.

i. _____

_____

_____(1)

ii. _____

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_____(1)

c. Outline how each of the **TWO** Health and Safety legislations mentioned in Question 6b promotes Health and Safety practices.

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Section C

- During the course of his placement, Gilbert accompanied Dr Camilleri to the Burns Unit.
- This Unit hosts patients who have suffered severe burns.
- Dr Camilleri explained that it is important that patients are assessed for Activities of Daily Living before they return home.

Question 7   **K-8 (8 marks)**

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

Activity 1: _____ (0.4)

Activity 2: _____ (0.4)

Activity 3: _____ (0.4)

Activity 4: _____ (0.4)

Activity 5: _____ (0.4)

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

Reason 1: _____

_____(1)

Reason 2: _____

_____(1)

c. One of the service users within the Burns unit was called Sandra.
- Sandra suffered a 3rd degree burn in her left arm and left leg.
- As a result, she could not carry out all her activities of daily living.
- Also, she ended up suffering from difference in body temperature.

Identify **FOUR** types of support needed by Sandra in carrying out her daily living activities independently.

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_____ (4)

Please turn the page.

Question 8   **K-10 (8 marks)**

- One day on the way back home from his placement, Gilbert saw a massive car accident.
- Gilbert wanted to lend a hand.
- He knew it helps to work in a team during an emergency.

a. Outline **TWO** reasons why it is important to work in a team during an emergency situation.

Reason 1: _____

_____ (1)

Reason 2: _____

_____ (1)

b. State the **FIVE** pieces of information needed when calling for help in an emergency situation.

i. _____ (0.4)

ii. _____ (0.4)

iii. _____ (0.4)

iv. _____ (0.4)

v. _____ (0.4)

c. Identify, from the box below, **FOUR** emergency situations that might require someone to ask help from a health care professional.

Fractures   Nose bleed   Unconsciousness
Jelly fish sting   Cardiac arrest   Minor cut   Choking

i. _____ (1)

ii. _____ (1)

iii. _____ (1)

iv. _____ (1)