



MACHAKOS UNIVERSITY

University Examinations for 2021/2022

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

FIRST YEAR FIRST SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE (FOODS, NUTRITION AND DIETETICS)
HSU 100: BASIC LIFE SUPPORT & EMERGENCY CARE

DATE: 31/1/2022

TIME: 8.30-10.30 AM

INSTRUCTIONS:

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

SECTION A: COMPULSORY (30 MARKS)

QUESTION ONE

- a) Define the following terms (2 marks)
 - i) Cardiac arrest
 - ii) Extrication
- b) Explain the techniques used in opening the airway (4 marks)
- c) Explain how you would assess a casualty's level of consciousness (4 marks)
- d) Outline the types of emergencies (3 marks)
- e) You have concluded primary assessment of a hit and run victim, explain 3 (three) possible outcomes of your assessment. (3 marks)
- f) Outline the aims of first aid (3 marks)
- g) State 4 (four) methods of applying bandages (2 marks)
- h) Outline the first aid interventions you would give to a choking adult with partial blockage (3 marks)
- i) List 6 (six) items in a first aid kit (3 marks)
- j) State types of shock you are likely to encounter in emergency response (3 marks)

SECTION B:

Specific Instructions

- **This section has four (4) question**
- **Answer any two (2) questions**
- **Each question is 20 Marks**

QUESTION TWO (20 MARKS)

A casualty falls from a zip line and sustains multiple injuries.

- Describe the assessment process you will undertake as soon as you arrive at the scene of the incident. (10 marks)
- Explain possible injuries that this casualty could sustain with their mechanism of causation, signs and symptoms (10 marks)

QUESTION THREE (20 MARKS)

You arrive at an accident scene of a head on collision of two cars with both drivers severely injured. One driver loudly calls out for help, “my legs are trapped in here please get me out” while the other is just silently staring at you. There are passengers in both cars.

- Explain how you will go about extrication of the victims (10 marks)
- Explain how you will go about triaging and administration of first aid to those involved (10 marks)

QUESTION FOUR (20 MARKS)

A mother is cooking porridge for 50 guests in a huge sufuria on a three stone firewood jiko placed outside her house, while carrying a 7 months old baby on her back. The baby suddenly slides off her back and gets immersed in the boiling porridge.

- This situation is preventable as are other home accidents. Discuss strategies that can be employed to prevent this incident and other home accidents (10 marks)
- Identifying the extend of burns in this child, explain your response to this incident (10 marks)

QUESTION FIVE (20 MARKS)

- Describe the emergency methods of moving casualties (10 marks)
- A known epileptic student starts convulsing in a common unit lesson that you have attended. As a certified first aider, how would you respond? (10 marks)