



MACHAKOS UNIVERSITY

University Examinations 2020/2021 Academic year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH.

HSU 100: BASIC LIFE SUPPORT & EMERGENCY CARE

DATE: 26/2/2021

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 (3 marks)
 - i. Golden hour
 - ii. Extrication
 - iii. Basic Life support
- b) Outline the causes of emergencies (3 marks)
- c) You have concluded primary assessment of a fall victim, explain three possible outcomes of your assessment. (3 marks)
- d) State six responsibilities of a first aiders (3 marks)
- e) Explain the criteria for secondary triage in a mass incident (3 marks)
- f) Outline the analytical frameworks that can be used to identify the risk factors for road traffic accident (3 marks)
- g) A wasp stings a child's hand, explain the interventions you will provide (3 marks)
- h) You assess a casualty and you determine that airway obstruction is apparent. What are your possible interventions (3 marks)
- i) Critique the trimodal death pattern in trauma and emergencies (3 marks)

- j) Identify three (3) advantages and three (3) disadvantages of helicopter transport in emergencies (3 marks)

SECTION B:

Specific Instructions

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

QUESTION TWO (20 MARKS)

A 63 seater bus headed to Kisumu from Mombasa stumbles on a stationery track on the road without warning sign at about midnight. The driver immediately brakes swerving dangerously before hitting the edge of the track and the bus rolls over five times killing a number passengers on the spot.

- a) Analyze the crash and associated crash factors and the integrated preventive approaches for such crashes (10 marks)
- b) Leading your team you arrive at the scene, describe how you will proceed with triage of the casualties (10 marks)

QUESTION THREE (20 MARKS)

- a) You arrive at a scene of landslide where you are leading a team in excavating the casualties. Explain how you will size up the scene. (10 marks)
- b) You find a non-responsive casualty by the road side with a few by standers wondering the next course of action. Describe your response to this incident. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Respond to a fire incident involving three casualties in a burning house. You can hear screaming from inside and hitting at the door that grows faint by the minute. (12 marks)
- b) Describe the actions you will take to rescue a drowning child in a pool's deep end bearing in mind you are not a good swimmer. (8 marks)

QUESTION FIVE (20 MARKS)

- a) A casualty in your care following a blunt abdominal trauma without any visible tissue damage complains of dizziness and begins to gradually lose consciousness. What is the possible outcome of the injury and how will you intervene to save the casualty's life. (10 marks)

- b) You are part of the emergency response team in a war zone. Evaluate the type of injuries you are likely to encounter against the emergency response services required. (10 marks)