



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

FIRST YEAR SPECIAL/SUPPLEMENTARY FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH

HSU 100: BASIC LIFE SUPPORT AND EMERGENCY CARE

DATE: 25/7/2019

TIME: 2.00-4.00 PM

Instructions:

- The paper consists of **two** sections
- Section **A** is **compulsory**
- Answer **any two** questions in section **B**

SECTION A

QUESTION ONE (30 MARKS)

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|---|-----------|
| a) Define a sprain and identify its causes | (3 marks) |
| b) Explain the role of emergency medical services during accidents | (3 marks) |
| c) Distinguish between primary and secondary prevention of injuries | (3 marks) |
| d) Explain the signs and symptoms of heart attack | (3 marks) |
| e) Explain the head tilt/chin lift maneuver as used in basic life support | (3 marks) |
| f) State the common causes of respiratory failure | (3 marks) |
| g) Explain the application of first aid to a sprained ankle | (3 marks) |
| h) Identify the methods used for ventilations in BLS | (3 marks) |
| i) Outline the main aims of managing wounds in first aid | (3 marks) |
| j) Differentiate between modifiable and non-modifiable risk factors | (3 marks) |

SECTION B: ANSWER ANY TWO QUESTIONS. EACH QUESTION IS 20 MARKS

QUESTION TWO (20 MARKS)

- a. Explain the factors that increase the risk of injury among populations. (10 marks)

- b. As a first responder, describe the skills that you would require to achieve optimal patient outcome (10 marks)

QUESTION THREE (20 MARKS)

- a. Describe the factors to consider when transporting critically ill patients (10 marks)
- b. Explain the common causes of respiratory failure (10 marks)

QUESTION FOUR (20 MARKS)

- a. Explain the circumstances under which a first aider would stop CPR (10 marks)
- b. A mass accident has occurred along Mombasa road. Explain the challenges a first aider is likely to face while assisting casualties. (10 marks)

QUESTION FIVE (20 MARKS)

- a. Explain how to conduct primary assessment of unresponsive patient (10 marks)
- b. Explain the priorities that a first aider would consider at the scene of an accident (10 marks)