



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE IN PUBLIC HEALTH**

HSU 100: BASIC LIFE SUPPORT AND EMERGENCY CARE

DATE: 29/4/2019

TIME: 2:00 – 4:00 PM

SECTION A (COMPULSORY)

- **This section has one question**
- **The question is compulsory**
- **The question is 30 marks**

QUESTION ONE (30 MARKS)

- a) Define first aid and outline the characteristics of a first aider (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) Outline the first aid measures for a deep cut (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 Basic Life Support. (BLS). (3 marks)
- i) Outline the main aims of managing wounds in first aid (3 marks)
- j) Explain how to treat a broken arm (3 marks)

SECTION B:

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

QUESTION TWO (20 MARKS)

- a) Explain how to dislodge a foreign body airway obstruction in a five-year-old child. (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) In village X, a neighbour's house has caught fire and trapped inside is an eight (8) year old child. As a trained first aider, describe the first aid measures that you would apply once the child has been evacuated. (10 marks)

QUESTION FOUR (20 MARKS)

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

QUESTION FIVE (20 MARKS)

- a) Nandi, a population health student from Azikiwe University has just collapsed on her way to the sewerage treatment plant. Explain how to conduct primary assessment on her considering that she is unresponsive. (10 marks)
- b) Dodo company has noted that there are a number of injuries resulting from the company's day to day operations. As a result, you have been contracted to develop an injury prevention plan for the company. Explain the steps used in developing such a program. (10 marks)