

**TECHNICAL UNIVERSITY OF MOMBASA**

**Faculty of Applied & Health Sciences**

**Department of Environment & Health Sciences**

**UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY  
HEALTH (BSCH 14S)**

**APH 4211: BASIC LIFE SUPPORT AND EMERGENCY CARE (Y2S2)**

**END OF SEMESTER EXAMINATION**

**SERIES: MAY 2016**

**TIME: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

1. This paper consists of FIVE questions
  2. Answer question ONE (Compulsory) and any other TWO questions on the answer booklets provided.
  3. Do not write on this question paper.
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**Question One (Compulsory)**

- a. (i) Define First Aid (2 marks)  
(ii) Enumerate four objectives of First Aid (4 marks)
- b. State three ways in which a paramedical officer can check for breathing when evaluating an unconscious patient (3 marks)
- c. (i) Differentiate between tachycardia and bradycardia with reference to a 24 year old unconscious casualty (2 marks)  
(ii) Name four sites where an arterial pulse can be palpated in an adult casualty (4 marks)
- d. (i) List any three signs of respiratory distress in a child (3 marks)  
(ii) Outline the four steps involved in providing First Aid for an adult with fractured ribs (4 marks).
- e. Name three types of snake bites (3 marks)
- f. With reference to infection prevention and control:  
(i) Define clean techniques (2 marks)  
(ii) State any three examples of aseptic techniques (3 marks)

**Question Two**

You are a coordinator of a community health project. During the monthly progress update meeting, as you are addressing the 80 community health workers who have gathered, you

suddenly hear high pitched sounds of car brakes screeching followed by a loud collision. Within no time you see clouds of smoke billowing from the main road which is about 200 metres from where you are.

- a. Discuss the details of your emergency action plan in this scenario (16 marks)
- b. (i) Explain the characteristics of casualties that would require cardiopulmonary resuscitation (CPR) (2 marks).  
(ii) Describe how you would perform CPR assuming you are the only rescuer (2 marks)

### **Question Three**

- a. Describe the chain of infection (12 marks)
- b. Using examples to support your answer, discuss any four ways in which the chain of infection could be broken (8 marks)

### **Question Four**

- a. Define a Mass Casualty Incident (2 marks)
- b. Describe any four potential hazards that first responders should be aware of during a Mass Casualty Incident (8 marks)
- c. Briefly outline the concept of triage (2 marks)
- d. Describe the "MASS" Triage technique (8 marks).

### **Question Five**

- a. (i) List any three types of shock (3 marks)  
(ii) Name any five signs/symptoms of shock (5 marks)
- b. (i) List any four causes of burn injuries (4 marks)  
(ii) Outline the classification of burns (8 marks)