



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SPECIAL/SUPPLEMENTARY EXAMINATIONS
FIRSY YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
FIRST SEMESTER, 2024/2025
(AUGUST, 2025)

MELS 122: FIRST AID AND EMERGENCY CARE

STREAM: Y1S1

TIME: 2 HOURS

DAY: FRIDAY, 9:00-11:00 AM

DATE: 15/08/2025

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer ALL questions in Section A and in Section B. Answer question ONE (Compulsory) and any other question in section C***

SECTION A: MULTIPLE CHOICE QUESTIONS.

1. What is the first step in providing first aid to an unconscious person?
 - A. Check the breathing and pulse
 - B. Call emergency response
 - C. Move the casualty to a sitting position
 - D. Start CPR
2. What should you do if someone is choking and cannot speak or breathe?
 - A. Start CPR
 - B. Perform abdominal thrust
 - C. Give water to drink
 - D. Provide artificial ventilation
3. What is the recommended compression-to-ventilation ratio for adult CPR?
 - A. 30:2
 - B. 25:2
 - C. 20:3
 - D. 15:2
4. What is the primary purpose of applying a tourniquet in first aid?
 - A. Prevent infection
 - B. Stop bleeding
 - C. Stop hematoma
 - D. Stop inflammations

5. What is the correct way to treat a minor burn?
 - A. Apply ice directly
 - B. Run the cool water over the burn
 - C. Expose burn to the air
 - D. Rub the burn with ointment
6. Solid emergency preparedness kit can make all the difference in a crisis. Which of the following is a comprehensive checklist to get you geared up and ready for emergency response?
 - A. Bandages, antiseptic wipes, gauze, adhesive tape, tweezers, scissors, pain relievers, gloves
 - B. Copies of personal documents
 - C. Toothbrush, toothpaste, soap, feminine hygiene products
 - D. Multi-tool or Swiss Army knife
7. How often should I update and check my emergency kit as a first aider?
 - A. A full review to restock
 - B. Replace expired items
 - C. Adjust based on the season.
 - D. All of the above
8. Which of the following is not a priority of first aider?
 - A. Preserve life
 - B. Prevent the illness or injury from becoming worse
 - C. Promote recovery
 - D. Training of self defense
9. Burns are classified as **critical**, **moderate** or **mild** depending on following:
 - A. The responses of the casualty
 - B. The number of people involved
 - C. The age and physical condition of the casualty
 - D. The response to treatment
10. Whenever you help in an emergency situation, you should abide by the following principles:
 - A. You identify yourself as a first aider
 - B. Seek for the consent before you touch the causality
 - C. Use reasonable skill and care according to the level of knowledge and skill that you have
 - D. All of the above
11. Stress management in emergency situations are biological response and may not be reflected in
 - A. An increase in heart rate
 - B. An increase in blood pressure
 - C. A decreased in blood sugar
 - D. Dilation of the bronchi and pupils

12. The secondary survey has following steps Except:
- A. History
 - B. Vital signs
 - C. Head-to-toe exam
 - D. Treatment
13. Common complications of burns include the following Except:
- A. Shock caused by the loss of blood or blood plasma to the surrounding tissues is the immediate danger
 - B. Infection, because burned skin isn't a good barrier to bacteria
 - C. Treat problems if the face or throat is burned, or the casualty has inhaled smoke, fumes or steam
 - D. Swelling, as clothing and jewelry will cut off circulation when the area swells
14. Which of the following is not a Rule of nines for an adult burn assessment?
- A. 9%—head and neck together
 - B. 20%—each arm
 - C. 18%—front surfaces of the trunk
 - D. 18%—rear surfaces of the trunk
15. Which of the following is not a Rule of nines for a child burn assessment?
- A. 18%—head and neck together
 - B. 20%—each arm
 - C. 18%—front surfaces of the trunk
 - D. 18%—rear surfaces of the trunk
16. Which of the following is not a Clinical conditions requiring first aid?
- A. Burns and Electric Shock, Cuts, Dehydration
 - B. Ear Problems and Injuries, Age 11 and Younger
 - C. Ear Problems and Injuries, Age 12 and Older
 - D. Infertility and hormonal imbalance aged 18 and older
17. For minor sunburn, give first aid is administered as follows:
- A. Get the casualty out of the sun, and do a scene survey and primary survey.
 - B. Gently sponge the area with cool water or cover with a wet towel, to relieve the pain. Repeat this step as needed to relieve pain.
 - C. Pat the skin dry and put on a medicated sunburn ointment if available. Apply the lotion according to directions on the package.
 - D. All of the above
18. Indications of the functions of the skin with regard to first aid are.
- A. Protection
 - B. Sunbath
 - C. Lack of melanin
 - D. Infection

19. Which of the following is not applied in the ethics and law of First aid response?
- A. Don't identify yourself as a first aider
 - B. Seek for the consent before you touch the casualty
 - C. Use reasonable skill and care according to the level of knowledge and skill that you have
 - D. You are not negligent in what you do
20. Which of the following is not a principle in implied consent?
- A. The law assumes the casualty would give consent
 - B. If there is no parent or guardian at the scene in case of children under age
 - C. Shows signs of language barrier
 - D. When treating a relative

SECTION B. (ANSWER ALL QUESTIONS IN THIS SECTION)-20 MARKS

1. Explain the characteristics of a good first aider. (5marks)
2. Outline priorities in first aid treatment of a casualty who presents with epileptic attack. (5marks)
3. Explain the term cardiopulmonary resuscitation and how do you administer this service? (5marks)
4. Briefly explain the ethics and law applied in First aid response. (5marks)

SECTION C. ANSWER QUESTION ONE(COMPULSORY) AND ANY OTHER QUESTION. (30 MARKS)

1. Describe in details the steps that are involved in first aid to preserve life in case of a casualty who has suddenly involved in road traffic accident (15marks)
2. Explain in details the signs and symptoms of cardiac failure and action plan to take as a first aider. (15marks)
3. You were with a friend in a get-together party, suddenly she/he collapses. On assessment you diagnosed that she/he had developed hypoxia, describe the procedure you will follow to alleviate her/his condition. (15marks)