

# UGANDA ALLIED HEALTH EXAMINATIONS BOARD



## SEMESTER I, 2021/2022 EXAMINATIONS

**Programme:** DIPLOMA IN CLINICAL MEDICINE AND COMMUNITY HEALTH

**Course Code:** DCM 2106

**Course Name:** ENVIRONMENTAL HEALTH

**Time:** 02:00 – 05:00 PM

**Date:** Monday 27<sup>th</sup> June, 2022

### Instructions to Candidates:

1. Read Instructions carefully.
2. Mobile phones even when switched off are prohibited in the examination room.
3. Write your Index number **ONLY** on all pages of your answer booklet(s).
4. **Do not write on the question paper and Examination card.**
5. Write all your answers in the answer booklet provided.
6. Do not take any paper outside the examination room.
7. All rough work should be done in the answer booklet and then crossed out. Pages must not be removed from the answer booklet.
8. Use a blue/black pen for writing and a pencil for drawing where necessary.
9. Candidates must not take into the examination hall or have in their possession any unauthorized apparatus, books, notes or paper of whatever nature or size.
10. The Paper is divided into three sections: **A** Multiple-Choice questions, **B** Short Answer Questions and **C** Essay questions. **Attempt all questions**
11. Wear your face mask throughout the examination and it should cover your mouth and nose



**SECTION A: MULTIPLE CHOICE QUESTIONS (20 MARKS)**  
Select and write in your answer booklet the letter representing the correct response

1. Which of these is made up of all living things?
  - A. Biological environment
  - B. Economic and political environment
  - C. Physical environment
  - D. Social and cultural environment
2. The delivery or draw pipes of a protected spring are found in the;
  - A. Diversion ditch
  - B. Embankment wall
  - C. Fence
  - D. Retention wall
3. Which of the following is a physical method of water treatment?
  - A. Bio sand filtration
  - B. Coagulation
  - C. Flocculation
  - D. Solar disinfection
4. Which of the following is a water related disease?
  - A. Bilharzia
  - B. Onchocerciasis
  - C. Schistosomiasis
  - D. Trachoma
5. The components of an ordinary pit latrine include the following, **except**;
  - A. A pit
  - B. Slab
  - C. Superstructure
  - D. Vent pipe
6. Using the item again in the same way it was used in the first place is waste;
  - A. Recovery
  - B. Refuse
  - C. Reuse
  - D. Recycle
7. The public health importance of rodents includes the following, **except**;
  - A. Their contamination of food does not cause poisoning
  - B. They are a nuisance to people causing discomfort due to their bites
  - C. They cause economic loss due to their destructive nature
  - D. They destroy foods
8. The residue that accumulates from sewage treatment plants is called
  - A. Effluent
  - B. Semisolid
  - C. Sludge
  - D. Sullage
9. The physical characteristics of solid wastes include the following, **except**;
  - A. Have a calorific value
  - B. Have a specific density
  - C. Have a specific particle size and distribution
  - D. Production of odour
10. Which of the following diseases is transmitted by biological vectors?
  - A. Ascariasis
  - B. Dysentery
  - C. Onchocerciasis
  - D. Scabies



11. The collective term that describes Human waste, sullage, industrial waste and storm water is;
- A. Effluent
  - B. Liquid waste
  - C. Run off
  - D. Sewage
12. Which of the following dimensions are considered while constructing a trench latrine?
- A. 45cm deep, 45cm wide and 300cm long
  - B. 60cm deep, 45cm wide and 300cm long
  - C. 60cm deep, 45cm wide and 400cm long
  - D. 60cm deep, 55cm wide and 300cm long
13. Qualities of an ideal pit latrine include the following, **except**;
- A. Anal cleansing materials may not be available
  - B. Excreta shouldn't be accessible to flies or animals
  - C. The method should be culturally acceptable
  - D. There are shouldn't be contamination of surface water
14. The type of hazard that occurs when the type of work, body position and working conditions put strain on the body is known as;
- A. Biological
  - B. Ergonomic
  - C. Physical
  - D. Social
15. During the construction of a ventilated improved pit latrine, the vent pipe is carried up and above the top of the roof by .....meters.
- A. 0.4
  - B. 0.5
  - C. 0.6
  - D. 0.7
16. In humans, noise pollution can have a detrimental effect on both mental and physical health and has been linked to the following, **except**;
- A. Depression
  - B. Hearing loss
  - C. Hypertension
  - D. Low stress levels
17. The purpose of home visiting includes the following, **except**;
- A. To assess the mortality rate in the community
  - B. To give care to the sick
  - C. To give health education
  - D. To promote utilization of community services
18. Which of the following statements, best describes a semi-permanent house?
- A. House built intended to last for long
  - B. House built to last for a short period of time
  - C. House made up of cement, stones, bricks and roof with iron sheets
  - D. House that can be renovated in case of damage
19. Qualities of an ideal homestead include the following, **except**;
- A. Living house should be close to the one of animals
  - B. Should have a proper rubbish deposit ground
  - C. Should have a proper source of food
  - D. Should have a proper source of food



20. The modern methods of food preservation include ;

- A. Drying
- B. Fermentation

- C. Pasteurization
- D. Refrigeration

## SECTION B: SHORT ANSWER QUESTIONS (20 MARKS)

21. Define the following terms;

- i) Safe water chain
- ii) Excreta disposal
- iii) Well
- iv) Pollutant
- v) Water cycle

(1 mark)

(1 mark)

(1 mark)

(1 mark)

(1 mark)

22. Outline **three (3)**;

(a) Advantages of recycling as a method of waste disposal.

(3 marks)

(b) Disadvantages of recycling as a method of waste disposal.

(3 marks)

23. Explain **five (5)** properties of hazardous wastes

(5 marks)

24. Outline **four (4)** safety measures to observe during insecticide handling.

(4 marks)

## SECTION C: ESSAY QUESTIONS (60 MARKS)

25. (a) Describe the components of health care waste management.

(10 marks)

(b) Explain **ten (10)** roles of a clinical officer in enforcement of environmental health laws.

(10 marks)

26. (a) Describe the **seven (7)** steps involved in large scale water treatment.

(14 marks)

(b) Describe **three (3)** environmental health hazards

(6 marks)

27. (a) Explain **eight (8)** ways in which occupational health hazards can be prevented in the health care setting.

(16 marks)

(b) Explain **four (4)** ways of preventing abandonment of sanitary facility.

(4 marks)

END