

UGANDA ALLIED HEALTH EXAMINATIONS BOARD



SEMESTER I, 2020/2021 EXAMINATIONS

Programme: DIPLOMA IN CLINICAL MEDICINE AND COMMUNITY HEALTH

Course Code: DCM 2106

Course Name: ENVIRONMENTAL HEALTH

Time: 09:00 AM – 12:00 NOON

Date: Tuesday 14th December, 2021



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. Environmental health deals with;
A. Environmental sanitation only
B. Health education of the mass on behavior change
C. Preventing disease, promoting health and prolonging life
D. Taming the environment
2. is made up of all living things; people, vegetation, and animals.
A. Biological environment
B. Economic and political environment
C. Physical environment
D. Social and cultural environment
3. Solid accumulation rate in wet pit ranges from..... per person per day.
A. $0.04 - 0.06 \text{ m}^3$
B. $0.4 - 0.6 \text{ m}^3$
C. $0.02 - 0.04 \text{ m}^3$
D. $0.2 - 0.4 \text{ m}^3$
4. The following are true about artificial ventilation, **except**;
A. It is mechanical ventilation
B. It constitutes ventilation openings
C. It may include an extraction system
D. It may also include an input system known also as propulsion system
5. The following are factors to consider in the control of disease vector and rodents, **except**;
A. Breeding sites
B. Places and time of feeding
C. Size of vector
D. Type of vector
6. A water-based disease is also known as;
A. Water related disease
B. Water impounding disease
C. Faecal disposal disease
D. River blindness disease
7. The presence of indicator bacteria in water is indicative of;
A. Chemical pollutants in water
B. Harmful inorganics in water
C. Faecal contamination
D. Excessive residual chlorine in water
8. Which of the following is **false** about rain water?
A. Purest if collected and stored in clean closed tanks
B. Has no disadvantage
C. Is soft and does not contain any essential salts
D. May not taste very good
9. Which of the following parts of a protected spring has similar functions as a storage tank?
A. Draw chamber
B. Embankment wall
C. Outlet pipe
D. Spring box

10. The most effective and useful way of disposing off readily biodegradable type of refuse is by;
- Composting
 - Crude dumping
 - Incineration
 - Sanitary land fill
11. Water borne systems of excreta disposal;
- Can as well work as a dry method for excreta disposal
 - Is the best method of excreta disposal with no short falls
 - Require chemical application to remove smell and flies
 - Requires constant supply of water for its proper functioning
12. Protective devices used in work place for health workers include the following, **except**;
- Aprons
 - Dust-masks
 - Goggles
 - Safety helmets
13. Which of the following is **false**?
- The decomposition of human waste in a septic tank is an anaerobic process
 - A seepage pit is a water tight underground pit for containing liquid waste
 - Anaerobic digestion is a method of waste treatment that converts waste into useful products
 - All the above
14. Which of the following is **not** an objective of solid waste management?
- Creation of jobs to the public
 - Environmental protection
 - Resource recovery
 - Source reduction
15. The main purpose of conducting health education is to help an individual;
- Ascertain the hygiene of the community
 - Digest matters
 - Reduce on disease burden
 - Take up an informed decision
16. The importance of environmental legislative procedure concerning building laws is to help in avoiding growing;
- Slums
 - Towns
 - Trading centres
 - Villages
17. The minimum recommended distance of a pit latrine from a water source is metres.
- 8
 - 10
 - 30
 - 100
18. The following make up an ideal homestead, **except**;
- Animal house
 - Excreta disposal
 - Main house
 - Sick bay

19. User friendly latrines can be determined by the following, **except**
- | | |
|---------------|----------------------|
| A. Accessible | C. Safety |
| B. Comfort | D. Shallow and dirty |
20. Which of the following is an effective preventive measure for occupational hazards?
- | | |
|--------------------------------|--------------------------------|
| A. Avoidance of work situation | C. Insulation of noise |
| B. Isolation of hazards | D. Routine medical examination |

SECTION B: SHORT ANSWER QUESTIONS (20 MARKS)

21. Define each of the following terms;
- | | |
|--------------------|----------|
| (a) Sanitation | (1 mark) |
| (b) Sullage | (1 mark) |
| (c) Leachate | (1 mark) |
| (d) Eutrophication | (1 mark) |
22. (a) State **two (2)** factors to consider when siting a pit latrine. (1 mark)
 (b) State **two (2)** factors that affect the depth of a pit latrine. (1 mark)
 (c) Give **two (2)** features of an ECOSAN method of excreta disposal. (2 marks)
23. State **four (4)** duties of a clinical officer in occupational health services. (4 marks)
24. (a) State **two (2)** chemicals used in water treatment (1 mark)
 (b) Write down **four (4)** health effects of noise. (2 marks)
 (c) State **two (2)** methods used to preserve food. (1 mark)
25. Outline **four (4)** safety measures to observe during insecticide handling. (4 marks)

SECTION C: ESSAY QUESTIONS (60 MARKS)

26. (a) Describe **eight (8)** steps followed in the process of spring protection. (8 marks)
 (b) Explaining the function of each, name the components of a protected spring with a spring box (5 marks)
 (c) Explain **six (6)** reasons for protecting water sources. (5 marks)
 (d) Stating how to mitigate each, explain **six (6)** health hazards at a health facility. (6 marks)
27. (a) Define a vector. (2 marks)
 (b) Describe the basic control strategies of bed bugs. (10 marks)
 (c) Describe the ideal hospital waste management (8 marks)
28. (a) Describe **ten (10)** components considered for a homestead to be graded as "ideal". (10 marks)
 (b) Explain **seven (7)** ways how housing conditions affect the health of the occupants (7 marks)
 (c) Give **three (3)** importance of home visiting. (3 marks)

END