(10mks)



FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHER OF SCIENCE IN CLINICAL MEDICINE AND COMMUNITY HEALTH THIRD SEMESTER 2022/2023 [MAY-AUGUST, 2023]

COMH 102: ENVIRONMENTAL HEALTH

STREAM: Y1S3 TIME: 2 HOURS

DAY: WEDNESDAY, 2:00 - 5:00 PM DATE: 26/07/2023

INSTRUCTIONS

and large scale

1. Do not write anything on this question paper.

SECTION I: SHORT ESSAY QUESTIONS

Answer all questions in this section

1.	Rodents especially rats are important in community medicine	
	a) Give reasons as to why it is important	(5mks)
	b) Describe the <i>clinical features</i> of at least one disease associated with rats which is recogn	
	at community level	(2mks)
	c) What are the <i>control measures</i> for rats	(3mks)
2.	(a) Mention at least five classes of occupational hazard	(5mks)
	(b) Give at least one <i>control measure</i> for each	(5mks)
3. 7	There's an outbreak of Cholera in your area.	
	a) State the <i>clinical manifestations</i> of Cholera disease	(5mks)
	b) Describe the <i>clinical intervention for the disease</i>	(5mks)
5.	Outline the prevention and control measures you will for Cholera	(10mks)
4. Discuss the various methods of waste management ((10mks)

5. Water plays an important role in environment. Discuss the methods of water purification on small

6. Describe <i>methods of medical waste disposal</i> from a level four hospital	(10mks)
7. Overcrowding and poor ventilation constitutes a health hazard. Discuss	(10mks)
8.Discribe the Typical Risk-Control Hierarchy	(10mks)
9.Discribe the responsibilities of employers in OSHA	(10mks)
10.Classify and describe the Occupational problems/diseases	(10mks)

SECTION III: MULTIPLE CHOICE QUESTIONS CIRCLE/CHOOSE ONE CORRECT RESPONSE

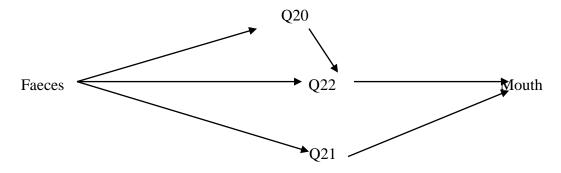
MCQ: only one true answer

- 1. The first activity of a clinician at an accident scene is;
 - (a) Identify himself and start treating the victims
 - (b) Organize for ambulatory transport
 - (c) Triage the victims
 - (d) Inform the medical officer of health
- 2. The principal recipient of feedback in a communication process is?
 - (a) The whole community
 - (b) The specific audience during the process
 - (c) The communication
 - (d) The target audience for the intended message
- 3. The operational work force at the community level are;
 - (a) Traditional birth attendants (TBAs)
 - (b) The herbalist
 - (c) Community health workers
 - (d) Community midwives
- 4. Which of the following is a PHC principal?
 - (a) Equality
 - (b) Control of all endemic diseases
 - (c) Accessibility
 - (d) Adequate water supply and sanitation
- 5. Which of the following work place hazards appears entirely in physical state?
 - (a) vibrations,
 - (b) spores
 - (c) Carbon Monoxide Carbon monoxide
 - (d) workstation design and height
 - 6. the following is health hazards enter your body except:
 - (a) Breathing (inhalation)
 - (b) Swallowing (ingestion)
 - (c) Skin (absorption)
 - (d) chewing
- 7. The host factors that influence diseases causation include;
 - (a) Dosage

- (b) Age
- (c) Mortality
- (d) Prognosis
- 8. The process of taking water from its source for analysis by the government chemist or national health public health laboratories is known as;
 - (a) Sampling
 - (b) Epidemiological investigations
 - (c) Biological monitoring
 - (d) Chemical analysis
- 9. Which of the following makes a final decision that unclaimed dead body should be disposed?
 - (a) Police officer
 - (b) Medical officer
 - (c) Public health officer
 - (d) Judge
- 10. Drug abuse
 - (a) Simply means using drugs without prescription
 - (b) Is when one starts craving for drugs routinely
 - (c) Means having to depends largely or entirely on drugs
 - (d) Is a significant impairment after a period of sustained use of drugs
- 11. The psychoactive drug heroine is a
 - (a) Stimulant
 - (b) Depressant
 - (c) Hallucinogen
 - (d) Suppressant
- 12. The difference between drug tolerance and craving is;
 - (a) Craving leads to dependency and tolerance leads to resistance
 - (b) Craving leads to resilience and tolerance leads to dependency
 - (c) Tolerance leads to resilience and craving leads to resistance
 - (d) Though cravings is psychological and tolerance is biological they both lead to dependency
- 13. Which of the following is a priority for a clinical officer carrying out a community diagnosis activity?
 - (a) Identifying resources necessary for basic health development
 - (b) Planning for mitigation when natural disaster occurs
 - (c) Establishing infrastructure for local disease response
 - (d) Deploying staff for local disease needs
- 14. The most recent development for the KEPI programme is
 - (a) Is introduction of 2nd dose measles vaccine
 - (b) The introduction of vitamin A as both a food supplement and a vaccine
 - (c) Beyond Zero campaigns and National immunization days
 - (d) The introduction of Rotavirus vaccinations
- 15. Routinely at 14 weeks;
 - (a) All children must received all vaccines previously missed
 - (b) All children should get polio 3 and Penta 3 vaccines doses
 - (c) Yellow fever vaccine is given but only is selected sub-counties within the Rift valley region

- (d) Vitamin a could be administered to children facing malnutrition
- 16. Which of the following diseases is water borne?
 - (a) Malaria
 - (b) Typhoid
 - (c) Bilharzia
 - (d) Teaniasis
- 17. The best working definition of sound is;
 - (a) Noise
 - (b) Pressure variation in the natural states of matter
 - (c) A vibration which could be detected by auditory systems of a man
 - (d) A change in the inertia
- 18. Primary protein could be sourced from?
 - (a) Meat and beans
 - (b) Milk and water melon
 - (c) Meat and green leafy vegetables
 - (d) Beans and maize (githeri)
- 19. Which of the following people are most predisposed to cholera
 - (a) Children aged below six months
 - (b) Nurses and other medical workers
 - (c) Women
 - (d) Males of all ages

Use the link below on oral – feacal routes to answer questions 20 - 23



- 20. The point marked Q20 represents
 - (a) Flies
 - (b) Mosquitoes
 - (c) Cockroaches
 - (d) Rodents
- 21. The point marked Q21 represents
 - (a) Food
 - (b) Feaces
 - (c) Water
 - (d) Fingers
- 22. The central point at Q22 could be

- (a) Food or waters
- (b) Fingers or faeces
- (c) Flies of faeces
- (d) Faeces or water
- 23. In Kenya, one of the reasons why people avoid the construction of pit latrines is;
 - (a) Weak collapsible soils
 - (b) Deep soil profiles
 - (c) Brittle rocks
 - (d) Ignorance and government policies
- 24. One of the main aims of the KEPI programme is;
 - (a) To improve primary school enrolment rates
 - (b) Reduce population and habits of nomad communities
 - (c) Reduce and control mortality and mobidity in children below one year
 - (d) Fight cholera
- 25. Factors which increase the susceptibility of a community to the impact of hazards could be summed up as
 - (a) Risks
 - (b) Vulnerability
 - (c) Resilience
 - (d) Causes of disasters
- 26. During her child bearing ages, a pregnant mother receives a total of 5 tetanus toxoids for periods of up to 4th pregnancy only because;
 - (a) Subsequently she develops enough eostrogen to counter any injuries
 - (b) Subsequently she accumulates progesterone to counter injuries
 - (c) No woman give birth after the 4th pregnancy
 - (d) It is what is recommended in the immunization schedule
- 27. Which of the following is a counseling skill for drug addicts?
 - (a) Teaching
 - (b) Role modeling
 - (c) Story telling
 - (d) Empathy
- 28. Which of the following is a PHC element?
 - (a) The empowerment of women
 - (b) Maternal and child health
 - (c) Environmental sustainability
 - (d) community participation
- 29. In VIP toilet, the provision that controls fly nuisance is;
 - (a) Self-closing doors
 - (b) The dark interior
 - (c) The vent pipe
 - (d) The overhead fly screen

- 30. Which one of the following is a factor in the competition between man and the disease-causing organism
 - (a) The condition of the environment
 - (b) Religion of the community
 - (c) Infrastructure
 - (d) Skills and technology

31. The following vaccines are live attenuated except

- (a) BCG
- (b) Rubella
- (c) Measles
- (d) Rota virus

32 The following statements is true about immunization except

- (a) Children cannot contact the disease they are vaccinated against.
- (b) Several vaccines can be given at the same time
- (c) Vaccines given at 9 months includes yellow fever
- (d) Pneumococcal vaccine can be given between 6 weeks and 12 months
- 33. The following are true bout vibrio cholera except
 - (a) Is a gram-negative bacillus
 - (b) Is anaerobic
 - (c) Usually, motile
 - (d) Not sensitive to acidity and drying
- 34. The following is true about a bout Amoebiasis except
 - (a) Exists as a trophozoite and cyst
 - (b) Incubation period of E.Hystolytica is 2-4 weeks
 - (c) Amoebic cysts do not need treatment
 - (d) Most patients present with fever
- 35.the following diseases are spread though feacal matter except?
 - (a) Typhoid fever
 - (b) Poliomyelitis
 - (c) Infective Hepatitis A
 - (d) Schistosomiasis
- 36. The following are characteristic of good housing except:

- (a) Good ventilation(b) Near a pit latrine(c) Near source of water(d) Adequate spacing for family members
- 37. The following diseases need Quarantine as part of management Except
 - (a) Ebola
 - (b) Tuberculosis
 - (c) Cholera
 - (d) Plague
- 38.A comprehensive municipal solid waste management includes the following activities except
 - (a) Setting policies
 - (b) Developing and enforcing regulations
 - (c) Establishing training programs
 - (d) Establishing prices for services
- 39. Transmission of Amoebiasis includes:
 - (a) Direct fecal oral transmission
 - (b) Sexual transmission
 - (c) Colonic irrigation
 - (d) Inhalation spores
- 40. The following statements are true about 'CHICKEN POX' except
 - (a) Causative agent NOT known
 - (b) Impetigo is a differential diagnosis
 - (c) Communicable 5 days before eruption
 - (d) Its caused by a virus varicella-zoster virus
- 41. The following are protozoal diseases Except
 - (a) Shigellosis
 - (b) Trypanosomiasis
 - (c) Amoebiasis
 - (d) Giardiasis
- 42.Factors that determine/contribute to the occurrence of a disease
 - (a) Absence of vectors
 - (b) Disposal of Excreta
 - (c) Availability of water
 - (d) Poverty
- 43. The following are NOT household hazardous waste:

(c) adequate water
(d) Human waste disposal
45. The following are qualities of safe water except
(a) Tasteless
(b) Colourless
(c) Oduor less
(d) turbid
46.Unsafe injection practices may transmit the following infections except
(a) Hepatitis B virus
(b) Hepatitis C virus
(c) Leukemia
(d) HIV AIDS
47. Which of the following is a Water washed disease
(a) Cholera
(b) Poliomyelitis
(c) Hepatitis A
(d) Amoebiasis
(e) Scabies
48. The following are ways of measuring radiation exposure except ?
(a) Geiger Muller survey
(b) Ionization chamber
(c) Sphygmomanometer
(d) Pocket dosimeter
49. Which one is not a source of river pollution
(a) Landfill activity
(b) Mining
(c) Petroleum exploration
(d) deforestation
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(a) Paint thinners(b) Pesticides(c) Insecticides(d) Antifreeze

(a) Clean air

(b) stable climate

44. Components of environmental health consist of the following except

(b) Neutralization
(c) Coagulation
(d) Flocculation
52. The following are diseases associated with chemical exposure to environment except:
(a) Silicosis
(b) Anthracosis
(c) Asbestosis
(d) tuberculosis
53. Which of the following is the main cause of environmental pollution
(a) Agricultural activities
(b) Industrialization
(c) Population growth
(d) Urbanization
54The following statement about types of environment are true except
(a) Abiotic environment consists of flora and fauna
(b) Biotic environment is also known as physical exam
(c) Lithosphere consist of rocks, stones
(d) Hydrosphere is known as sphere of water
55. Which of the following diseases is not occupational diseases?
(a) Tuberculosis
(b) Pneumoconiosis of any type
(c) Cholera
(d) HIV/AIDS
56. The following environmental factors may not influence the community health
(a) Life support
(b) Micro organisms
(c) Toxins
(d) Agricultural waste
57. Which of the following is true about food preservation
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50. Control of noise pollution at source involves;

(c) Using silencers on the vehicle exhaust

51. The following are chemical methods of abating pollution except:-

(a) Enclosing the source(b) Insulating the source

(d) Using amplifiers

(a) Grease traps

- (a) Sun drying method is the most commonly used method
- (b) Refrigeration changes the food colour and smell
- (c) Smoking involves putting salt into meat product and allowing them to dry
- (d) All of the above is correct
- 58. The elements of health promotion in disease prevention according to WHO except
 - (a) Good governance for health
 - (b) Health literacy
 - (c) Healthy cities
 - (d) Healthy environment
- 59. Which of the following is NOT among the millennium development goals?
 - (a) Promotion of gender equality and empowerment of men
 - (b) Reduction of adult mortality
 - (c) Improvement in maternal health
 - (d) Combating HIV AIDS, Ebola and other diseases
- 60.General strategies that may NOT strengthen preventive health service
 - (a) Occupation health and safety
 - (b) Rehabilitation
 - (c) Research and development
 - (d) Financing the health care delivery system