



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
END OF SEMESTER MAY-AUG 2025 EXAMINATIONS**

COURSE CODE AND TITLE: BSM 325 Public Health in Midwifery

UPGRADING

DATE:

Duration:

Start:

Finish:

INSTRUCTIONS

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks) Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

MULTIPLE CHOICE QUESTIONS (MCQS)

20 MARKS

1. Which of the following options outlines key emerging concerns in environmental health?
 - A. Reafforestation, climate change, air pollution
 - B. Air pollution, water pollution, afforestation
 - C. Climate change, ergonomics, mental health
 - D. Water pollution, ergonomics, afforestationANSWER:C
2. The statement that best describes environmental toxicology is that it the study of:
 - A. Effects of pollutants on ecological systems
 - B. The treatment of toxic substances
 - C. Human reactions to toxic exposures
 - D. Processes of environmental toxin elimination
 - E. ANSWER: A
3. One of the disadvantages of surface water is that:
 - A. It is not easily accessible
 - B. It requires treatment before drinking
 - C. It is hard due to dissolved minerals
 - D. Access to the water requires drillingANSWER: B
4. The reference pathogen when testing water quality in Kenya is:
 - A. *Salmonella typhi*
 - B. *Escherichia coli*
 - C. *Vibrio cholerae*
 - D. *Shigella dysenteriae*ANSWER: B
5. County X, where you work in the health management team, reports an outbreak of cholera. You recognize that this is an example of:
 - A. Water based disease
 - B. Water related disease
 - C. Water borne disease
 - D. Water washed diseaseANSWER:C
6. Which of the following statements is true regarding particulate matter?
 - A. It's produced by the incomplete combustion of carbonaceous fuels
 - B. Contains sulphates, nitrates and ammonia
 - C. It is one of the major constituents of photochemical smog
 - D. It is produced from the burning of fossil fuelsANSWER:B
7. The Ministry of Health is mandated to ensure food safety is upheld across the processing spectrum. Which one of the statements below references the Kenya Public Health Act Cap 254?
 - A. Food must be prepared and stored in approved establishments
 - B. Carcasses must be decontaminated before they enter the food chain
 - C. Appropriate pesticides must be used to control pests in food crops
 - D. Appropriate drugs and antibiotics must be used to treat animal diseases

ANSWER:A

8. In the hierarchy of waste management, the most preferred solid waste management strategy is:

- A. Recycling or composting
- B. Combustion with energy recovery
- C. Source reduction and reuse
- D. Landfilling and incineration

ANSWER:C

9. During which step in the sewage treatment process are suspended solids removed?

- A. Screening
- B. Final treatment
- C. Primary treatment
- D. Secondary treatment

ANSWER:C

10. Under Occupational Safety and Health Regulations, it is the responsibility of the employer to provide:

- A. A safe work environment
- B. Appropriate land for all
- C. Insurance for all employees
- D. Hygienic meals at work

ANSWER:A

11. A source of potential harm in the workplace is known as:

- A. An exposure
- B. A contaminant
- C. A control
- D. A hazard

ANSWER:D

12. Which of the following are examples of psychosocial hazards in the workplace?

- A. Stress and workplace violence
- B. Bacteria and viruses
- C. Pesticides and solvents
- D. Radiation and repetitive strain

ANSWER:A

13. An increase in disease cases in excess of what is expected because of environmental or other changes, leading to increased transmissions is known as:

- A. Epizootic
- B. Endemic
- C. Epidemic
- D. Pandemic

ANSWER:C

14. A long-term complication of recurrent malaria infection is:

- A. Splenomegaly
- B. Ototoxicity
- C. Pulmonary embolism
- D. Hypertension

ANSWER:A

15. The main mode of transmission of leishmeniasis is:

- A. Mosquito bite
- B. Rodent bite
- C. Person-person contact
- D. Sandfly bite

ANSWER:D

16. The primary mode of transmission for tuberculosis is:

- A. Droplet inhalation
- B. Insect bites
- C. Contaminated water
- D. Unprotected sex

ANSWER:A

17. The causative organism for cholera is:

- A. *Salmonella typhi*
- B. *Vibrio cholera*
- C. *Trypanosome brucei*
- D. *Schistosoma mansoni*

ANSWER:B

18. The most appropriate action that a midwife should undertake when a child misses a vaccine is:

- A. Administer the missed dose
- B. Refer parent for counselling
- C. Re-start the immunization schedule
- D. Wait to administer the next vaccine

ANSWER:A

19. The recommended cold chain temperature for storage of vaccines in a refrigerator is:

- A. -15 to -25 degrees C
- B. +15 to +25 degrees C
- C. -2 to -8 degrees C
- D. +2 to +8 degrees C

ANSWER:D

20. During the monthly Sub-County reports, Facility Q reported administration of 160 doses of measles vaccine out of a target population of 200. The correct vaccine coverage for the facility that month was:

- A. 100%
- B. 80%
- C. 32%
- D. 125%

ANSWER:B

SECTION TWO: SHORT ANSWER QUESTIONS (30 MARKS)

1. Outline five environmental components that can affect health of people (5 Marks)
2. State five (5) key principles of primary health care (5 Marks)
3. State four (4) important health care messages that the midwife should share with a pregnant woman who has just received the second dose of Tetanus Diphtheria vaccine (4 Marks)
4. State five (5) roles of the midwife in management of the vaccine cold chain (5 Marks)
5. Explain the three levels of communicable disease control (6 Marks)
6. State five (5) modes of disease transmission (5 Marks)

SECTION THREE: LONG ANSWER QUESTION (20 MARKS)

1. Ms. Tee, a 25-year-old primigravid woman, reports to the antenatal clinic at 8 weeks' gestation with the intention to begin prenatal care. She is concerned about stories that she has read on social media regarding the supposed effect of vaccines on fertility. She asks for information regarding the expected immunizations for her and her baby.

Describe the Kenyan Immunization Schedule that you would discuss that will be applicable for her and her baby (20 marks)