



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING AND MIDWIFERY SCIENCES
KENYA REGISTERED COMMUNITY HEALTH NURSING
END OF SEMESTER DECEMBER 2023**

DNS 119: IMMUNISATION

DATE:

TIME: 2 Hours

Start:

Finish:

INSTRUCTIONS

1. This exam will be marked out of 70 marks
2. The Examination has Three Sections: Section A- Multiple Choice Questions, Section B: Short Answer Questions, Section C: Long Answer Questions
3. Answer all Questions in the ANSWER BOOKLET provided

PART ONE: MULTIPLE CHOICE QUESTIONS (30 MARKS)

1. One of the following is true concerning vaccines
 - a. They are given only to treat specific infections
 - b. They are also known as antibodies
 - c. They are used prophylactically
 - d. They are not safe for old people above 65 years

2. Antibodies: -
 - a. Are produced by antigen
 - b. Neutralize the antigens
 - c. Are also known as immunogens
 - d. Can eliminate any form of antigen

3. An attenuated antigen means: -
 - a. It is more virulent
 - b. It can cause a disease in human
 - c. It lacks pathogenic capabilities
 - d. It has been freeze-dried

4. The type of immunity acquired when one recovers from a disease such as covid-19 is:
-
 - a. Natural active
 - b. Natural passive
 - c. Artificial active
 - d. Artificial passive

5. Innate immunity is mediated by: -
 - a. Infections
 - b. Recovery from infections
 - c. Antigen-antibody reactions
 - d. Cells like phagocytes

6. The most heat sensitive vaccine is : -
- BCG
 - Oral Polio
 - Pentavalent
 - Tetanus
7. The type of immunity that tends to last for long is: -
- Natural passive
 - Artificial passive
 - Natural active
 - Artificial active
8. The type of vaccine that should be avoided in patients in full-blown AIDS symptoms is: -
- DNA recombinant vaccine
 - Live vaccine
 - Inactivated vaccine
 - A conjugate vaccine
9. One of the following vaccine types elicits very poor immune response:-
- Pneumococcal vaccine
 - Pneumococcal conjugate vaccine
 - BCG
 - Measles
10. Protein based vaccines include: -
- Hepatitis C vaccine
 - Measles vaccine
 - Inactivated polio vaccine
 - Acellular pertussis vaccine
11. Toxoid vaccines include: -
- Oral polio and Sabin vaccines
 - Inactivated polio vaccines and Rota virus vaccine
 - Rotavirus vaccine and hepatitis B vaccine
 - Tetanus vaccine and diphtheria vaccine

12. A monovalent vaccine means: -

- a. It is given as a single dose only
- b. It contains a single purified antigen
- c. It produces mononucleic antibodies
- d. It is given in a separate syringe from others, as one vaccine

13. Inactive vaccine constituents that helps to increase its shelf-life are known as: -

- a. Diluents
- b. Antimicrobials
- c. Preservatives
- d. Stabilizers

14. One of the following is true concerning vaccine diluents: -

- a. They can be used for any vaccine
- b. They must be frozen to maintain their potency
- c. Are specific to a vaccine
- d. They must be fat-soluble

15. An ideal vaccine should be: -

- a. Given at least two to three dosages
- b. Given parenterally
- c. given to protect only one type of infection
- d. stable in field temperatures

16. A baby born at home , who presents to the health facility for the first time at age 15 days should be given: -

- a. A return date to fit within the DVI vaccination schedule
- b. BCG vaccine and oral polio vaccine birth dose
- c. BCG vaccine only
- d. Pentavalent vaccine 1 and BCG

17. The appropriate nursing action for Master X, who presents to the facility at age three months after getting his scheduled vaccines at birth and at 6 weeks only and then was lost to follow up would be to:- -
- Should scold the mother for negligence
 - Start the vaccination schedule afresh
 - Continue with vaccination from where he stopped and mother given health education
 - Teach the mother on importance of vaccine and report her to the children department
18. An HIV exposed baby is presents to the clinic at 8 months for the first time since birth, the nurse: -
- Informs the mother to bring the baby at 9 months to get measles vaccines
 - Gives BCG, pentavalent 1, OPV 1, PCV 1 and measles vaccine
 - Gives BCG and measles vaccines only and records on the mother-child health booklet
 - Gives vitamin A and advises the mother to bring the child at 9 months for measles vaccine
19. Food handlers should be vaccinated against: -
- Rabies
 - Typhoid
 - Tetanus
 - Tuberculosis
20. The nurse is administering BCG vaccine to a child brought to the clinic for the first time at 13 months of age. The correct dose she administers is: -
- 0.5ml
 - 0.005ml
 - 0.01ml
 - 0.1 ml

SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)

1. Outline **Five (5)** documents to be filled in an immunization program activity. (5 Marks)
2. State **Five (5)** nursing interventions for a child suffering from anaphylactic reaction post vaccine administration. (5 Marks)
3. Outline **Five (5)** daily activities a nurse does to maintain vaccine cold chain at a health facility. (5 Marks)
4. State **four (5)** reasons why a nurse should conduct vaccine forecasting needs for a health center (5 Marks)
5. Outline **five (5)** causes of vaccine wastage in immunization programs (5 Marks)
6. Outline **Five (5)** obligations of the unit of vaccine and immunization services in Kenya. (5 Marks)

SECTION III: LONG ANSWER QUESTION. (20 MARKS)

1. Tabulate the childhood vaccination schedule per the Kenya National Immunization Policy Guideline 2023 (20 marks)