

AMREF INTERNATIONAL UNIVERSITY SCHOOL OF MEDICAL SCIENCES DEPARTMENT OF NURSING AND MIDWIFERY SCIENCES KENYA REGISTERED COMMUNITY HEALTH NURSING END OF SEPTEMBER -DECEMBER 2022 SEMESTER EXAMINATION

DNS 113: MICROBIOLOGY, PARASITOLOGY AND IMMUNOLOGY

DATE: 8TH NOVEMBER 2022

TIME: 2 Hours Start: 9:00am Finish: 11:00am

INSTRUCTIONS

- 1. This exam is out of 70 marks
- 2. This Examination comprises THREE Sections. Section A: Multiple Choice Questions Section B: Short Answer Questions and Section C: Long
- 3. Answer ALL Questions. Do not write on the question paper.

SECTION A: MULTIPLE CHOICE QUESTIONS (20 MARKS)

1. Eukaryotes: -

- A. Reproduce asexually
- B. Hemenolepis nana
- C. Have membrane bound nucleus
- D. Bacillus Anthracis

2. Gram positive cocci: -

- A. Have no capsule
- B. Are spiral in shape
- C. Do form spores
- D. Cannot be killed through boiling

3. Sore throats infection is commonly associated with: -

- A. Streptococcus pyogenes
- B. Neisseria meningitides
- C. Vibrio cholerae
- D. Candida albicans

4. Genus clostridia members are: -

- A. Commonly associated with opthalmia neonatorum
- B. Spore forming
- C. Aerobic
- D. Non-toxin producing

5. Myasthenia gravis is a type of: -

- A. Hypersensitivity type I reaction
- B. Hypersensitivity type II reaction
- C. Hypersensitivity type III reaction
- D. Hypersensitivity type IV reaction

6. Chronic active infection is commonly associated with elevation of: -

- A. IgG antibodies
- B. IgM antibodies
- C. IgA antibodies
- D. IgE antibodies

7. The Lab diagnosis of Ancylostoma Duodenale is through: -

- A. Identification of ova in stool
- B. Physical examination
- C. History taking
- D. Magnetic Resonance Imaging (MRI)

8. Flagellate type of protozoa include: -

- A. Trichomonas Vaginalis and Giardia lamblia
- B. Trypanosoma gambiense and Balantidium coli
- C. Entamoeba histolytica and Plasmodium falciparum
- D. Balantidium coli and Entamoeba histolytica

9. Naturally acquired active immunity is acquired after recovery from: -

- A. Malaria
- B. Mumps
- C. Rabies
- D. Yellow fever

10. Reverse Barrier nursing is recommended for patients with: -

- A. Leukemia
- B. Typhoid
- C. Malaria
- D. Marasmus

11. Antigenic material that helps scientists to recognize viruses is: -

- A. Protein
- B. Nuclear material
- C. Spores
- D. Glycoproteins

12. Bacterial cells are: -

- A. Serotonin
- B. Unicellular
- C. Multicellular
- D. Associated with sexual reproduction

13 Bacille Calmette Guerrin (BCG) vaccine is a form of a:-

- A. Live attenuated vaccine
- B. Killed vaccine
- C. Vaccine containing immunoglobulins
- D. Toxoid vaccine

14. The diagnostic test used to identify a drug of choice to treat an infection is: -

- A. Stool microscopy
- B. Culture and sensitivity
- C. Urinalysis
- D. Plasmapheresis

15. Tuberculosis is: -

- A. Airborne disease
- B. Waterborne disease
- C. Vector borne disease
- D. Food borne disease

16. Roundworms include: -

- A. Ascaris lumbricoides and Enterobius vermicularis
- B. Diphyllobotrium latum and Taenea saginata
- C. Taenea solium and Schistosoma haematobium
- D. Echinococcus granulosus and Taenea saginata

17. The following is a form of superficial mycosis: -

- A. Oral candidiasis
- B. Taenea Capitis
- C. Cryptococcosis
- D. Madura foot

18. Protozoa: -

- A. Are unicellular and smaller in size than bacteria
- **B.** Freely live in the air and water
- C. Have the ability to exist in form of cysts in the soil
- **D.** Contain chlorophyll thus can synthesize their own food

19. The following is a flatworm: -

- A. Enterobius vermicularis
- B. Schistosoma haematobium
- C. Taenia saginata
- D. Diphyllobothrium latum

20. The general characteristics of genus Neisseria include: -

- A. Gram negative, non-motile and fastidious to grow
- B. Coma shaped, motile and pleomorphic
- C. Coccobacilli, flagellated and gram negative
- D. Kidney shaped, non-motile and non-sporing

SECTION B: SHORT ANSWER QUESTIONS (30 MARKS)

- 1. State five (5) differences between a virus and bacterial cell (5 Marks)
- 2. Outline five (5) general characteristics of protozoa (5 Marks)
- 3. State any five (5) micro-organisms associated with infections in man (5 Marks)
- 4. Outline five (5) predisposing factors to worms infestation among children (5 Marks)
- 5. Describe the viral replication cycle (7 Marks)
- 6. State ant three (3) causes of low immunity (3 Marks)

SECTION C: LONG ANSWER QUESTIONS (20 MARKS)

Describe the measures you will take as a nursing manager to reduce hospital acquired infections in your health facility (20 Marks)