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**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING**

**INS 2109: MEDICAL MICROBIOLOGY**

**DATE: APRIL, 2020 TIME: 3 HOURS**

**INSTRUCTIONS: ANSWER ALL QUESTIONS**

not correct about autoclaving?

not correct about ‘Tyhoid Mary’?

11. Describe irradiation as a physical agent of microbial control. (5 marks)

12. Differentiate between prokaryotic and eukaryotic cells. (5 marks)

13. Describe chronic and latent virus infections. (6 marks)

14. Describe chronic and latent virus infections. (4 marks)

15. State factors a that predispose an individual to fungal infections. (5 marks)

16. Differentiate between endotoxins and exotoxins. (5 marks)

17. Describe the growth cycle of microbes in a culture. (5 marks)

18. Describe the main properties of protozoa. (5 marks)

19. Describe the rod-shaped morphology of bacteria. (5 marks)

20. Describe normal microbial flora of humans. (5 marks)

**PART 3: LONG ANSWER/ESSAY QUESTIONS (40 MARKS)**

21. a. Describe the general replication cycle of viruses. (8 marks)

 b. Describe the functions of a virus envelope. (4 marks)

 c. Describe the techniques used in identification of viruses in a laboratory (8 marks)

22. a. Describe the procedure for determining the sensitivity of a bacterium to

antibiotics. (8 marks)

 b. Describe the mechanisms of action of antimicrobial agents. (12 marks)