

QP Code:

Reg. No:

Second Professional MBBS Degree Examinations 2019 SCHEME

MICROBIOLOGY PAPER I

(Model Question Paper)

Time: 3 Hrs

Max. Marks: 100

Answer all questions. Draw diagrams wherever necessary.

Long Essays

(2 x15=30)

1. Define sterilization and disinfection. Enumerate methods of moist heat sterilization. Describe in detail, the principle, clinical applications and sterilization controls of autoclave. (2+3+ 2+ 5+3=15)

2. A25 year old male sales representative with history of consumption of food from outside, was admitted with high grade fever, anorexia, nausea for past 5 days. O/E, tongue was coated and hepatosplenomegaly was present. Blood investigations showed TC 8000 cells/ml with predominant lymphocytes. (2+ 4+4+2+ 3=15)
 - a. What is your clinical diagnosis? Enumerate the causative agents
 - b. Describe the pathogenesis & complications of the disease.
 - c. Describe the laboratory diagnosis of the disease.
 - d. How do you treat this case?
 - e. Add a note on prophylaxis.

Short essay

(5x 8 =40)

3. Define Hypersensitivity reaction. Describe the mechanism, clinical features, diagnosis, treatment of Type I hypersensitivity. (1+3+1+2+1=8)
4. Classical Complement pathway and Biological effects of complement. (4+4=8)
5. Serological diagnosis of Hepatitis B virus infection.
6. Enumerate causative agents of Fever of Unknown Origin (FUO). Describe the laboratory diagnosis of any one parasitic agent causing FUO.
7. Discuss transferable drug resistance in bacteria.

Short answers**(5 x 4 =20)**

8. Enumerate the moments of hand hygiene.
9. Laboratory diagnosis of Candidiasis.
10. State whether True or False with justification. Autoclave is a better method of sterilisation for hospital linen.
11. Post Exposure Prophylaxis for HIV.
12. Pathogenesis and lab diagnosis of Hook worm infection.

Objective type questions**(10 x1=10)**

13. Define autoimmunity.
14. Name TWO diseases acquired by airborne transmission.
15. Name TWO cell wall acting antibiotic.
16. Draw a neat labelled diagram of ovum of *Enterobius vermicularis*.
17. Name TWO fungi causing mycotoxicosis.
18. Infective form and intermediate host of *Echinococcus granulosus*.
19. Diagnostic feature of *Entamoeba histolytica* in stool microscopy.
20. Name TWO live viral vaccines.
21. Name FOUR viruses causing diarrhea.
22. State whether True or False with justification. Enveloped viruses are killed by washing with soap and water.