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2019 Scheme

Q.P. Code: 215001 Reg. no.:

Second Professional MBBS Degree Regular Examinations February 2022 Microbiology - Paper I

Time: 3 Hours

Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers
Indicate the question number correctly for the answer in the margin space
Answer all parts of a single question together • Leave sufficient space between answers

Draw table/diagrams/flow charts wherever necessary

Long Essays

Total Marks: 100

1. Classify hypersensitivity. Describe the pathogenesis of each one of them with examples. Draw diagrams wherever necessary (1+11+3)

- 2. A 50-year-old woman, an agriculture worker came with complaints of fever, malaise headache with yellow discolouration of sclera in eyes for the past 5 days. O/E microalbuminuria. There were floods in her place in the previous week.
 - (a) What is your diagnosis
 - (b) Describe the pathogenesis
 - (c) Lab diagnosis
 - (d) Classify various causes of bloodstream infection with examples. (2+3+6+4)

Short essays

- 3. Describe various virulence factors in bacteria with examples.
- 4. Describe principles of genetic engineering and their applications.
- 5. Describe various modes of biomedical waste disposal with examples.

Add a note on treatment of waste disposal

(4+4)

6. Classify nematodes, Enumerate intestinal nematodes. Add a note on life cycle, pathogenesis and lab diagnosis of Hookworm. (1+2+5)

Enumerate viruses causing gastroenteritis. Add a note on Morphology, Pathogenesis, Lab diagnosis and prevention of rotavirus infection (2+6)

Short answers

(5x4=20)

- 8. Structure of Gram negative cell wall with diagram.
- 9. Principle of presumptive coliform testing and its interpretation.
- 10. Draw the structure of HIV and label. Add a note on its transmission

(2.5+1.5)

11. Add a note on lab diagnosis of Pernicious Malaria.

12. Candida albicans.

Objective type questions

(10x1=10)

- 13. Name two sporicidal disinfectants.
- 14. Name two methods to test antibiotic susceptibility.
- 15. Name two immunosuppressive agents.
- 16. Name two viral disease transmitted by ticks.
- 17. Name two hepatitis viruses that are transmitted by Faeco-oral route.
- 18. Name two oncogenic viruses.
- 19. Name two protozoa that commonly cause opportunistic infection in AIDS.
- 20. Name two non-bile stained eggs.
- 21. Name two parasitic disease where man acts as intermediate host.
- 22. Name two dimorphic fungi.

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