



Rajiv Gandhi University Health and Science
MBBS Phase II Degree Examination
June-2018

Microbiology Paper 1

100Marks

Your Answers Should Be Specific To The question Asked.

Draw Diagrams Where ever Necessary.

Long Essays

10Marks

1. Enumerate antigen-antibody reactions. Describe the principle, methodology and clinical applications of agglutination reaction with suitable examples.
2. Enumerate the (bacterial) agents causing watery diarrhea or gastroenteritis. Classify vibrios. Describe the morphology, cultural characters, pathogenesis, Laboratory diagnosis and immunoprophylaxis of vibrio cholera.

Short Essays

5Marks

1. Bacterial flagella.
2. Chemical disinfectants (Commonly used in hospital).
3. Various types of culture (bacteriological) media with examples and their uses.
4. Mutation – definition, types and significance.
5. Monoclonal antibody – principle, production, and its application.
6. Type III hypersensitivity reactions.
7. Pathogenesis of corynebacterium diphtheria.
8. Helicobacter Pylori (pathogenesis, Labdiagnosis).
9. Brucellosis.
10. Labdiagnosis of extrapulmonary tuberculosis.

Short Answers

3Marks

1. Enumerate Koch's postulates.
2. Biological vector – define, give two examples.
3. Bacterial exotoxins.
4. IgG – structure(diagram), four properties, functions.
5. Enumerate biological effects of complement.
6. Laboratory diagnosis of meningococcal meningitis.
7. Pulmonary Anthrax (wool sorter's disease).
8. Enumerate diseases caused by haemophilus influenzae.
9. Rapid plasma reagin (RPR) test – principle.
10. Inclusion conjunctivitis.

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