

MCT 7016

Date: 02-01-2023

Second Year MBBS Examination

II MBBS Microbiology Paper 1 (New)

Time: 3 hours Max Marks: 100

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Structured Long Question: (Any 1 out of 2) (10)

- a. Describe structure & functions of cell wall of gram positive, gram negative & acid fast bacteria in detail with labelled diagram. 4+4+2
 - b. Define standard precautions. Enlist components of standard precautions. Describe any three components of standard precautions in detail. 1+3+6
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2. Write short notes: (Any 2 out of 3) (12)

- a. Define emerging infections. Describe laboratory diagnosis of Influenza H1N1 (swine flu) infection.
- b. Describe segregation & treatment of biomedical waste disposal.
- c. Enumerate various zoonotic diseases. Describe any one in detail.

3. Write short notes: (Any 3 out of 4) (18)

- a. Describe principle, applications, and modifications of PCR.
- b. Describe important cause of development of antimicrobial resistance & describe mechanisms of antimicrobial resistance.
- c. Describe Autoclave in detail.
- d. Describe Enriched media.

4. Answer only in 2-3 sentences: (Any 5 out of 6) (10)

1. Enumerate four anaerobic culture techniques.
 2. Enumerate steps of needle stick injury management.
 3. Enumerate who can be antimicrobial steward?
 4. Enumerate four physical methods of sterilization.
 5. Describe Two advantages of automated blood
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culture techniques over conventional.

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Section 2

5. Structured Long Question: (Any 1 out of 2) (10)

- a. Enumerate lymphoid organs of immune system.
Describe structure and functions of Thymus.
Describe T-Lymphocyte development in detail. 2+4+4
- b. What is hypersensitivity? Classify hypersensitivity. Describe Type-1 hypersensitivity in detail. 1+2+7

6. Write short notes: (Any 2 out of 3) (12)

- a. Describe Acquired immunity in: detail,
- b. Describe Classical complement. pathway,
- c. Describe structure and functions of Iv.

7. Write short notes: (Any 3 out of 4) (18)

- a. Laboratory diagnosis of fungal diseases,
- b. ELISA.
- c. Isolation of virus.
- d. Mutation.

8. Answer only in 2-3 sentences: (Any 5 out of 6) (10)

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- a. Define Eradication & Elimination.

- b. Classify immunity.
- c. Define Definitive and Intermediate host.
- d. Classification of parasites.
- e. Describe any two mechanisms of autoimmunity with examples.
- f. Enumerate four super antigens.

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