



SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

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Unit II – Pharmaceutical Microbiology

Complete Bloom's Taxonomy mapping for all 30 questions, with exam-body mapping (MGR, MRB, NIPER).

Part A – Short Answer (2 Marks)

No.	Question	Exam Mapping	Bloom's Level
1	Define simple staining.	MGR: 2019, 2021, 2023 MRB: ✓ NIPER: 2020	Remembering
2	Name two basic dyes used in simple staining.	MGR: 2019, 2022 MRB: ✓ NIPER: 2021	Understanding
3	What is the principle of Gram staining?	MGR: 2020, 2023 MRB: ✓ NIPER: 2019, 2022	Understanding
4	Name the primary stain used in Gram staining.	MGR: 2019, 2021 MRB: ✓ NIPER: 2020	Understanding
5	What is a mordant? Give one example.	MGR: 2020, 2022 MRB: ✓ NIPER: 2021	Remembering
6	Define Acid-fast staining.	MGR: 2019, 2021 MRB: ✗ NIPER: 2020	Understanding
7	Name one Acid-fast organism.	MGR: 2021 MRB: ✗ NIPER: 2022	Applying
8	What is mycolic acid?	MGR: 2020, 2023 MRB: ✓ NIPER: 2019	Remembering
9	Expand IMViC.	MGR: 2022, 2024 MRB: ✓ NIPER: 2020	Understanding
10	What is the Indole test used for?	MGR: 2020, 2022 MRB: ✓ NIPER: 2021	Understanding
11	What does a positive Methyl Red test indicate?	MGR: 2019, 2021, 2023 MRB: ✓ NIPER: 2020	Understanding

12	Define sterilization.	MGR: 2020, 2024 MRB: ✗ NIPER: 2021	Applying
13	What is moist heat sterilization?	MGR: 2019, 2021 MRB: ✓ NIPER: 2022	Remembering
14	Define dry heat sterilization.	MGR: 2021, 2023 MRB: ✓ NIPER: 2020	Understanding
15	What are sterility indicators?	MGR: 2020, 2022 MRB: ✓ NIPER: 2021	Remembering

Part B — Short Notes (5 Marks)

No.	Question	Exam Mapping	Bloom's Level
16	Simple staining: principle, procedure, and applications.	MGR: 2019, 2021, 2023 MRB: ✓ NIPER: 2019	Applying
17	Gram staining: principle and interpretation.	MGR: 2020, 2022 MRB: ✓ NIPER: 2021	Understanding
18	Acid-fast staining: principle and applications.	MGR: 2019, 2023 MRB: ✗ NIPER: 2020	Understanding
19	Indole test: principle and procedure.	MGR: 2020, 2024 MRB: ✓ NIPER: 2019, 2022	Analyzing
20	Methyl Red and Voges–Proskauer tests.	MGR: 2019, 2022 MRB: ✓ NIPER: 2020	Applying
21	Citrate utilization test.	MGR: 2020, 2023 MRB: ✓ NIPER: 2021	Understanding
22	Physical methods of sterilization.	MGR: 2021, 2024 MRB: ✓ NIPER: 2019	Understanding
23	Chemical methods of sterilization.	MGR: 2019, 2023 MRB: ✓ NIPER: 2020	Understanding
24	Radiation sterilization: principle and uses	MGR: 2020, 2022 MRB: ✓ NIPER: 2021	Applying
25	Bacterial identification techniques	MGR: 2019, 2021, 2023 MRB: ✓ NIPER: 2019, 2022	Applying

Part C — Essay (10 Marks)

No.	Question	Exam Mapping	Bloom's Level
26	Gram staining: principle, procedure, results, merits, demerits, and applications.	MGR: 2019, 2020, 2022, 2023 MRB: ✓ NIPER: 2021	Analyzing
27	Acid-fast staining: principle, procedure, merits, demerits, and applications.	MGR: 2019, 2021, 2024 MRB: ✗ NIPER: 2020	Analyzing
28	IMViC tests: principle, procedure, and significance in bacterial identification.	MGR: 2019, 2022 MRB: ✓ NIPER: 2021	Analyzing
29	Methods of sterilization: classification, principles, merits, demerits, and applications.	MGR: 2020, 2023 MRB: ✓ NIPER: 2019	Analyzing
30	Evaluation of efficiency of sterilization methods with examples.	MGR: 2019, 2021, 2022 MRB: ✓ NIPER: 2020	Evaluating
31	Large-scale sterilization equipment and sterility indicators used in pharmaceutical industries.	MGR: 2023, 2022 MRB: ✓ NIPER: 2021	Applying