## 2406121401010501 EXAMINATION JANUARY 2025 DOCTOR OF MEDICINE DOCTOR OF MEDICINE (MICROBIOLOGY) PAPER - I - LEVEL 1

[Time: As Per Schedule] [Max. Marks: 100] Instructions: Seat No: 1. Fill up strictly the following details on your answer book a. Name of the Examination: DOCTOR OF MEDICINE b. Name of the Subject : DOCTOR OF MEDICINE (MICROBIOLOGY) PAPER - I - LEVEL 1 c. Subject Code No: 2406121401010501 2. Drew labelled diagram wherever necessary. 3. Figures to the right indicate full marks of the question. 4. All questions are compulsory. Student's Signature DefineHAI. Discuss in detail about CLABSI. 20 Q.2 Discuss about role of immunity in fungal infection. 20 Write short notes on 20 (a) Graft versus host reaction (b) Secondary immunodeficiency (c) CSSD (d) Recombinant DNA technology Q.4 Write short notes on 40 (a) Role of Microbiologist in Outbreak investigation (b) Newer Viral vaccine (c) Antimicrobial stewardship programme (d) Newer diagnostic techniques used in Microbiology \*\*\*\*\*END\*\*\*\*

## 2406121401010502 EXAMINATION JANUARY 2025 DOCTOR OF MEDICINE DOCTOR OF MEDICINE (MICROBIOLOGY) PAPER - II - LEVEL 1

[Time	: As Per Schedule]	[Max. Marks: 100]
1. Fil	uctions:  I up strictly the following details on your answer book  Name of the Examination: DOCTOR OF MEDICINE  Name of the Subject: DOCTOR OF MEDICINE  (MICROBIOLOGY) PAPER - II - LEVEL 1	Seat No:
c. Subject Code No: 2406121401010502  2. Sketch neat and labelled diagram wherever necessary.  3. Figures to the right indicate full marks of the question.  4. All questions are compulsory.		Student's Signature
	bacterial meningitis. Add a note on differentiating features of Tuberculous and pyogenic meningitis.	
Q.2	Write short notes on	20
	(a) Write in brief about halophilic vibrio.	
	(b) Write a note on human anthrax and its importance as a bi agent.	oterrorism
	<ul> <li>(c) Discuss methods of prevention of transmission of Methic Staphylococcus aureus (MRSA).</li> </ul>	illin Resistant
	(d) Describe decontamination and concentration methods for	sputum.
Q.3	Enumerate sexually transmitted diseases. Describe the epidemio pathogenesis and laboratory diagnosis of Syphilis.	logy, 20

- (a) Write a brief note on genital chlamydial infections.
- (b) Discuss microbiological features and clinical importance of Staphylococcus saprophyticus.
- (c) Describe the virulence factors of Bordetella pertussis and laboratory diagnosis of Whooping cough.
- (d) Write in detail about recent advances in laboratory diagnosis of pulmonary tuberculosis.

\*\*\*\*\*FND\*\*\*\*\*

## 2406121401010503 EXAMINATION JANUARY 2025 DOCTOR OF MEDICINE DOCTOR OF MEDICINE (MICROBIOLOGY) PAPER - III - LEVEL 1

[Max. Marks: 100] [Time: As Per Schedule] Instructions: Seat No: 1. Fill up strictly the following details on your answer book a. Name of the Examination: DOCTOR OF MEDICINE b. Name of the Subject : DOCTOR OF MEDICINE (MICROBIOLOGY) PAPER - III - LEVEL 1 c. Subject Code No: 2406121401010503 2. Drew and labelled diagram wherever necessary. 3. Figures to the right indicate full marks of the question. 4. All questions are compulsory. Student's Signature Enumerate fungi causing systemic infections. Describe mycology, clinical 20 features, laboratory diagnosis and treatment of Blastomycosis. Q.2 Write short notes on 20 (a) Write in brief on glandular fever. (b) Write a note on immunological abnormalities associated with HIV (c) Write a note on antifungal susceptibility testing. (d) Discuss the pathogenesis, clinical manifestation and laboratory diagnosis of cysticercus cellulosae. Q.3 Enumerate arboviruses prevalent in India. Discuss pathogenesis and laboratory 20 diagnosis of Dengue. Add a note on Dengue vaccines. Write short notes on 40 (a) Discuss the morphology, life cycle, pathogenicity and laboratory diagnosis of malarial parasite. (b) Enumerate fungi causing opportunistic infections. Discuss laboratory diagnosis of candidial infections. (c) Discuss the morphology, pathogenesis, laboratory diagnosis and prevention of HBV. (d) Discuss antigenic variations in Orthomyxoviruses.

\*\*\*\*\*END\*\*\*\*

## 2406121401010504 EXAMINATION JANUARY 2025 DOCTOR OF MEDICINE DOCTOR OF MEDICINE (MICROBIOLOGY) PAPER - IV - LEVEL 1

[Time: As Per Schedule] [Max. Marks: 100]

Instructions:	Seat No:		
1. Fill up strictly the following details on your answer book			
a. Name of the Examination: DOCTOR OF MEDICINE			
b. Name of the Subject : DOCTOR OF MEDICINE			
(MICROBIOLOGY) PAPER - IV - LEVEL 1			
c. Subject Code No: 2406121401010504	Student's Signature		
2. Sketch neat and labelled diagram wherever necessary.	Student's Signature		
3. Figures to the right indicate full marks of the question.			
4. All questions are compulsory.			
Q.1 Describe recent advances in "Automation in Clinical Microbio	ology" 30		
Q.2 Write short notes on.	40		
(a) Write in brief on molecular typing methods for bacteria			
(b) Discuss nanotechnology for diagnosis of infectious disc	eases.		
Q.3 Enumerate target amplification based nucleic acid tests. Write	in brief on its 30		
principle along with diagram. Discuss their role in diagnosis, management and			
epidemiological study of infectious diseases.			