



BB-2106121001010001

M. D. (Microbiology) Examination
April - 2022
General Microbiology & Immunology

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशांशवेष निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	<input type="text"/>
<input checked="" type="checkbox"/> M. D. (Microbiology)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input checked="" type="checkbox"/> General Microbiology & Immunology	<input type="text"/>
Subject Code No. :	<input type="text"/>
Section No. (1, 2,.....) : NIL	<input type="text"/>
2 1 0 6 1 2 1 0 0 1 0 1 0 0 0 1	<input type="text"/>
	Student's Signature

(2) All questions are compulsory.

(3) Draw diagram wherever necessary.

(4) Figures to right indicate marks.

1 What are the serodiagnostic techniques. Describe principle, types and applications of ELISA. 20

2 Write short notes on : 20

(a) Mechanism of microbial evasion of complement system

(b) Cold agglutination

(c) Interleukins

(d) Write in detail about HLA its Clinical applications

3 Describe mechanisms of drug resistance and its importance in patient treatment 20

4 Write notes on : 40

(a) Methods of Anaerobiosis and basic requirements to develop anaerobic cultivation Microbiology laboratory.

(b) Polymerase chain reaction

(c) Write in detail about various types of immunoglobulin and their role in infectious diseases.

(d) Genetic engineering.



BB-2106121001020001

M. D. (Microbiology) Examination

April - 2022

Systemic Bacteriology : Paper - II

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
☛ M. D. (Microbiology)	<input type="text"/>
Name of the Subject :	<input type="text"/>
☛ Systemic Bacteriology : Paper - II	<input type="text"/>
☛ Subject Code No. :	Section No. (1, 2,.....):
2 1 0 6 1 2 1 0 0 1 0 2 0 0 0 1	NIL
	Student's Signature

- (2) All questions are compulsory.
(3) Draw diagram wherever necessary.
(4) Figures to right indicate marks.

- 1 Enumerate bacterial cause of PUO. Discuss in detail about Leptospirosis. 20
- 2 Write short notes on : 20
- (a) Non-Tuberculous mycobacterium
(b) Brucellosis
(c) Bacterial causes of eye infections
(d) Describe nonfermenting gram negative bacilli and their Laboratory diagnosis.
- 3 Describe pathogenesis, Laboratory diagnosis and drug resistance in various Salmonella infection. 20
- 4 Write notes on : 40
- (a) Human diseases caused by Chlamydia
(b) Bacterial meningitis and its laboratory diagnosis
(c) Causative agents, pathogenesis and laboratory diagnosis of urinary tract infection (CAUTI)
(d) Write about Corynebacterium diptheria and Diptheriods.



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M. D. (Microbiology) Examination

April - 2022

Paper - III : Parasitology, Mycology, Virology

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> M. D. (Microbiology)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> Paper - III : Parasitology, Mycology, Virology	<input type="text"/>
Subject Code No. :	Section No. (1, 2,.....):
<input type="checkbox"/> 2 1 0 6 1 2 1 0 0 1 0 3 0 0 0 1	<input type="text"/> NIL
	Student's Signature

(2) All questions are compulsory.

(3) Draw diagram wherever necessary.

(4) Figures to right indicate marks.

1 Enumerate the Neurotropic viruses. Describe in detail pathogenesis, Laboratory diagnosis and prophylaxis of Rabies. 20

2 Write short notes on : 20

- (a) Otomycosis
- (b) Ebola Virus
- (c) Cryptococcosis
- (d) Dirofilaria

3 Write Pathogenesis and Laboratory diagnosis of Various blood flukes. 20

4 Write notes on : 25

- (a) Cultivation methods in Parasitology
- (b) Opportunistic fungal infections
- (c) Antifungal susceptibility testing
- (d) Viral Hemorrhagic fever.



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M. D. Examination

April - 2022

Microbiology : Paper-IV-2022 (Essay)

Time : 3 Hours]

[Total Marks : 100

सूचना / Instructions :

(1)

नीचे दशावलि ✎ निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of ✎ signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
✎ M. D.	<input type="text"/>
Name of the Subject :	<input type="text"/>
✎ Microbiology : Paper-IV-2022 (Essay)	<input type="text"/>
✎ Subject Code No. :	Section No. (1, 2,.....): Nil
2 1 0 6 1 2 1 0 0 1 0 4 0 0 0 1	<input type="text"/>
	Student's Signature

- (2) All questions are compulsory.
- (3) Draw diagram wherever necessary.
- (4) Figures to right indicate marks.

- | | | |
|---|---|----|
| 1 | Agents who can be used for Bioterrorism and their laboratory diagnosis. | 30 |
| 2 | Write short notes on : | |
| | (a) MALDI TOF | 20 |
| | (b) Newer Vaccines. | 20 |
| 3 | Quality control in Microbiology laboratory. | 30 |