



RAN - 2006000102020001

**RAN-2006000102020001**

**IInd M.B.B.S. Examination**

**February - 2021**

**Paper-I [Microbiology]**

**(General microbiology, Immunology & Parasitology)**

**Time: 2 Hours ]**

**[ Total Marks: 40**

**સૂચના : / Instructions**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવટ્ટી પર અવશ્ય લખવી.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

IInd M.B.B.S.

Name of the Subject :

Paper-I [Microbiology]  
(General microbiology, Immunology & Parasitology)

Subject Code No.: 2006000102020001

Seat No.:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Student's Signature

(2) Answer to the point.

(3) Draw a diagram whenever necessary.

**Section: I**

**Q:1 Long Question. (08)**

1. Enumerate motile organism. Describe structure and arrangement of flagella and write the techniques of detection of flagella.

**(OR)**

1. Draw labeled diagram of bacterial anatomy. Discuss the structural and functional details of bacterial capsule.

RAN-2006000102020001 ]

[ 1 ]

[ P.T.O. ]

P4757



**Q: 2 Write notes on any three. (12)**

1. Write definition and characteristics of an antigen.
2. Biological functions of complement.
3. What is autoimmunity? Discuss the various mechanism of autoimmunity.
4. Define hypersensitivity and write in details about type IV hypersensitivity.
5. Incineration.

**Section: II**

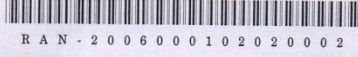
**Q: 3 Write notes on any two. (10)**

1. Define protozoa. Write their distinguishing features.
2. Describe Pathogenicity and laboratory diagnosis of lymphatic filariasis.
3. Enumerate trematodes. Life cycle of schistoma haematobium.

**Q: 4 Write in short (1-2 sentences). (10)**

1. Write two important function of IgM.
2. Two name of carcinogenic parasites.
3. Cold sterilization.
4. Write two uses of monoclonal antibodies.
5. Paradoxical carrier.
6. Define complement.
7. Enlist three selective media and its use.
8. Enumerate different types of infection.
9. Parasites demonstrated in peripheral blood
10. Characteristics of Hydatid fluid





RAN - 2006000102020002

**RAN-2006000102020002**

**IIInd M.B.B.S. Examination**

**February - 2021**

**Microbiology Paper - II**

**(Systemic Bacteriology, Virology, Mycology and Clinical Microbiology)**

**Time: 2 Hours ]**

**[ Total Marks: 40**

**સૂચના : / Instructions**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

IIInd M.B.B.S.

Name of the Subject :

Microbiology Paper - II (Systemic Bacteriology, Virology,  
Mycology and Clinical Microbiology)

Subject Code No.: 2006000102020002

Seat No.:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Student's Signature

(2) Answer to the point.

(3) Draw diagrams wherever necessary.

**Section I**

**Q. 1. Long question**

**(08 Marks)**

Describe in detail the laboratory diagnosis and antigenic structure of  
Salmonella Typhi.

**OR**

Classify the Mycobacteria. Discuss the laboratory diagnosis of  
pulmonary TB.

**Q.2. Write notes on (any THREE)**

**(12 Marks)**

a) Complications of measles.

b) Dengue virus.

RAN-2006000102020002 ]

[ 1 ]

[ P.T.O. ]

P4758



- c) Morphology of Human Immunodeficiency Virus (HIV).
- d) Differentiating features of killed and live polio vaccine.

**Section II**

**Q.3. Write notes on (any TWO): (10MARKS)**

- a) Classification of fungi.
- b) Histoplasmosis.
- c) Rhinosporidiosis.

**Q.4. Write in short (1-2 Sentences): (10 MARKS)**

- a) Name 2 fungi responsible for mycotoxicosis.
- b) Modes of transmission of healthcare associated infection.
- c) Name 2 different species of Aspergillus.
- d) How Zika virus disease is transmitted?
- e) Name 2 selective media used for vibrio
- f) Satellitism
- g) Nagler reaction
- h) Give examples of asexual spore.
- i) How to determine size of viruses?
- j) Name 2 bacterial organisms responsible for non-gonococcal urethritis.





N-2006000102020001

Second Year M. B. B. S. Examination

June / July - 2021

Microbiology : Paper - I

(General Microbiology, Immunology & Parasitology)

Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

नीचे दशांश देव निशा-नीवाणी विगतो उत्तरवडी पर अवश्य बखवी. Fillup strictly the details of signs on your answer book.	Seat No. : □ □ □ □ □ □ □ □
Name of the Examination : Second Year M. B. B. S.	Student's Signature
Name of the Subject : Microbio. - I (Gen. Microbio., Immuno. & Parasito.)	
Section No. (1, 2,.....) : 1&2	
Subject Code No. : 2 0 0 6 0 0 0 1 0 2 0 2 0 0 0 1	

(2) Attempt to the point.

(3) Draw a diagram whenever necessary.

### SECTION - I

1 Long Question. 8

(1) Define agglutination. Clinical application of agglutination reaction with suitable examples.

OR

(1) Define mutation and describe various types of mutation.

2 Write notes on any three. 12

(1) Describe the factors predisposing to microbial Pathogenecity.

(2) Bacterial growth curve.

(3) Autoclave.

(4) Bacterial spore.

(5) Characteristics of prokaryotes.

N-2006000102020001]

1

[10000000 [ Contd...

SECTION - II

- 3 Write notes on any two. **10**
- (1) Pathogenesis and laboratory diagnosis of intestinal amoebiasis.
  - (2) Hydatid cyst.
  - (3) Pathogenesis of cerebral malaria.
- 4 Write in Short (1-2 sentences). **10**
- (1) Adjuvants.
  - (2) TSI.
  - (3) Brood capsule.
  - (4) Define carrier.
  - (5) Catalase test.
  - (6) Enumerate spore forming organism.
  - (7) Phagocytosis.
  - (8) Zone of equivalence.
  - (9) Membrane filters.
  - (10) Any two materials sterilized by cold sterilization.







## SECTION - II

- 3 Write notes on (any TWO): 10
- (a) Laboratory diagnosis of fungal infections.
  - (b) Mycetoma
  - (c) Dermatophytes
- 4 Write in short (1-2 Sentences): 10
- (a) Name 2 most common organisms causing traveller's diarrhea.
  - (b) Modes of transmission of healthcare associated infection.
  - (c) Name 2 tick borne Arboviruses.
  - (d) Who discovered Mycobacterium tuberculosis and Mycobacterium leprae.
  - (e) Name 2 selective media used for Salmonella typhi.
  - (f) Satellitism
  - (g) Write 2 Differences between C. Diphtheriae and Diphtheroid. (h) Give examples of sexual spore.
  - (i) Names of opportunistic fungi.
  - (j) Schedule for pre exposure and post exposure rabies vaccination.