



RAN-2106121001010001

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M.D. Examination June - 2023

Microbiology Paper - I

General Microbiology & Immunology

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

(1)

नीचे दृष्टविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M.D.

Name of the Subject :

Microbiology Paper - I General Microbiology & Immunology

Subject Code No.: 2106121001010001

Seat No.:

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Student's Signature

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

Set - I

- Q. 1** Discuss biomedical waste management in hospital and other clinical establishments as per latest guidelines. **20**
- Q. 2** Describe human major histocompatibility complex. Discuss HLA typing and its applications. **20**
- Q. 3** Write short notes on. **20**
- (a) Bacterial growth curve
(b) DNA chips
(c) Sequestered antigen
(d) Cold sterilization
- Q. 4** Write short notes on. **40**
- (a) Methods of anaerobiosis
(b) Non PCR based amplification methods
(c) Role of microbiologist in control of healthcare associated infections (HAI)
(d) Autoimmunity

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M.D. Examination June - 2023

Microbiology Paper - III

Parasitology, Mycology & Virology

Time: 3 Hours]

[Total Marks: 100

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:

M.D.

Name of the Subject :

Microbiology Paper - III Parasitology, Mycology & Virology

Subject Code No.: 2106121001030001

Seat No.:

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Student's Signature

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

- Q. 1** Enumerate skin infection producing parasites, outline in brief, life cycle, and laboratory diagnosis of Visceral Leishmaniasis. Add a note on role of Immune response. 20
- Q. 2** Write short notes on. 20
- a) Zika virus
b) Viral inclusion bodies
c) Classify herpesviruses and give examples
d) Laboratory diagnosis of dengue
- Q. 3** Describe in detail opportunistic fungal infections. 20
- Q. 4** Write short notes on. 40
- a) Clinical importance of Non - albicans Candida (NAC).
b) Lab diagnosis of Hepatitis B and prophylaxis.
c) Oncogenic viruses
d) Free - living amoebae

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M.D. Examination June - 2023

Microbiology Paper - IV

Essay

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

- (1) नीचे दृशविले निशानीवाणी विगतो उत्तरवली पर अवश्य लभवी.
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Name of the Examination:

M.D.

Name of the Subject :

Microbiology Paper - IV Essay

Subject Code No.: 2106121001040001

Seat No.:

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Student's Signature

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

- Q. 1** Enumerate emerging viral infections in India and describe in detail on any one of them. **30**
- Q. 2** Write short notes on. **40**
- (a) Needle stick injury, A diagnostic dilemma and prevention.
(b) Next generation sequencing, Principle and uses in Microbiology.
- Q. 3** Describe in detail the role of automation in diagnostic Microbiology. **30**

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