



R-3712

Second Year M. B. B. S. Examination

June / July - 2018

Microbiology : Paper - I

(General Microbiology, Immunology & Parasitology)



Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવાદી પર અવશ્ય લખવી. Fill up strictly the details of signs on your answer book.	Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Name of the Examination : S. Y. M. B. B. S.	Student's Signature
Name of the Subject : MICROBIOLOGY : PAPER - 1	
Subject Code No. : 3 7 1 2 Section No. (1, 2,.....) : 1&2	

(2) Answer to the point.

(3) Draw diagram wherever necessary.

SECTION - I

1 Properties of ideal disinfectant, describe chemical disinfectants in detail. 8

OR

1 Describe different methods of horizontal gene transfer in bacteria. 8

2 Write short notes on : (Any Three) 12

- (a) Immunoglobulin M
- (b) Active acquired immunity
- (c) Antigen presenting cells
- (d) Plasmids.

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[Contd.....

SECTION - II

- 3 Write notes on : (Any Two) 10
- (a) Life cycle & Pathogenesis of *Leishmania donovani*.
 - (b) Morphology & life cycle of *Enterobius vermicularis*.
 - (c) Laboratory methods to detect infection caused by *Wuchereria bancrofti*.
- 4 Write in short : (1-2 sentences) 10
- (a) Name two enriched media.
 - (b) What is MHC restriction ?
 - (c) Enumerate various sources of infection.
 - (d) Write two properties of antigen.
 - (e) Name two parasites causing carcinoma.
 - (f) Draw labeled diagram of Lattice Hypothesis
 - (g) Write name of transport media for transporting 'Stool of *Vibrio cholera*.
 - (h) Enumerate two parasites seen in peripheral smear.
 - (i) Name definitive host of *Toxoplasma gondii*.
 - (j) Name Infective stage of hookworm and mode of infection.





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(Systemic Bacteriology, Virology, Mycology & Clinical Microbiology)



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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવક્રી પર અવશ્ય લખવી.
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Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2,.....) :

Seat No. :

Student's Signature

- (2) Answer to the point.
(3) Draw diagram wherever necessary.

SECTION - I

1 Enumerate causes of Neonatal meningitis. Describe laboratory diagnosis of meningococcal meningitis. 8

OR

1 Classify Streptococci. Describe laboratory diagnosis of sore throat and tonsillitis. 8

2 Write short notes on : (Any Three) 12

- (a) Write specific tests for laboratory diagnosis of HIV infection.
(b) Write prophylaxis of rabies.
(c) Pathogenesis of viral infections.
(d) Hepatitis E Virus.

SECTION - II

- 3 Write notes on : (Any Two) 10
- (a) Aspergillosis.
 - (b) Cryptococcus neoformans.
 - (c) Cutaneous mycosis.
- 4 Write in short : (1-2 sentences) 10
- (a) Name two opportunistic fungi.
 - (b) Name two anti rabies vaccines.
 - (c) Enumerate two dimorphic fungi.
 - (d) RPR test used for diagnosis of which disease ? Name the antigen used.
 - (e) Differentiate between Neisseria meningitidis and Neisseria gonorrhoea.
 - (f) Name one culture medium used for isolation of Leptospira.
 - (g) Name four tests performed on donors blood before transfusion.
 - (h) Give two differences between HIV-1 and HIV-2.
 - (i) Name two DNA viruses.
 - (j) Name two Atypical mycobacteria causing pulmonary disease resembling tuberculosis.





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Second Year M. B. B. S. Examination

November / December - 2018

Microbiology : Paper - I

(General Microbiology, Immunology & Parasitology)



Time : 2 Hours]

[Total Marks : 40

Instructions :

नीचे दशावेक निशानोवाणी विगतो उन्तरवडी पर अवश्य वचवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
SECOND YEAR M. B. B. S.	<input type="text"/>
Name of the Subject :	<input type="text"/>
MICROBIOLOGY - 1	<input type="text"/>
Subject Code No. : 3 7 1 2	Section No. (1, 2,.....) : 1&2
	Student's Signature

SECTION - I

- 1 Write notes on : 8
(1) Life cycle and laboratory diagnosis of *E histolytica*.
OR
(1) Describe various methods of Antibiotic susceptibility testing. 8
- 2 Write short notes on : (any three) 12
(a) Type-IV hypersensitivity.
(b) Differences between primary and secondary immune response.
(c) Gaseous sterilization.
(d) Plasmid.

SECTION - II

- 3 Write notes on : (any two) 10
(a) Free living amoeba.
(b) Differences between *Taenia solium* and *Taenia saginata*.
(c) Life cycle and laboratory diagnosis of *Ancylostoma deodenale*.

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

- (a) Write infective form of *Ascaris lumbricoides*.
- (b) Enlist two parasites which associated with malignancy.
- (c) Enlist two viviparous parasites.
- (d) Define pasturisation.
- (e) Selective media.
- (f) Define Adjuvent.
- (g) Write two differences between T cell and B cell.
- (h) Define translation.
- (i) Define superinfection.
- (j) Define and write use of Nucleic acid prob.





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Time : Hours]

[Total Marks :

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Second Year M. B. B. S.

Name of the Subject :
Microbiology : Paper - II

Subject Code No. : 3 7 1 3 Section No. (1, 2,.....) : 1, 2

Seat No. :

Student's Signature

SECTION - I

- 1 A 10 year old child admitted in hospital with complains of fever, abdominal cramp & diarrhea, containing blood and mucus. Stool culture identified the NLF bacteria on Mac Conkey's medium. Identify the disease & answer the following :
- Name the causative agent & describe the morphology of causative agent
 - Write the pathogenicity of causative agent
 - Describe the laboratory diagnosis of causative agent.

OR

- 1 A 28 years female patient visited the hospital with pus discharging swelling on the hand. Gram stain of discharge shows the presence of GPC in cluster. Culture shows the B-hemolysis on blood agar. Bacteria ferment mannitol with acid only. Identify the organism and answer the following :
- Name the causative agent & describe the morphology of causative agent.
 - Write the pathogenicity of causative agent.
 - Describe the laboratory diagnosis of this causative agent.

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[Contd...

- 2 Write short notes on : (any three) 12
- (a) Embryonated egg culture
 - (b) Zika virus
 - (c) Pathogenecity & laboratory diagnosis of polio virus.
 - (d) Virulence factors of pneumococci.

SECTION - II

- 3 Write short notes on: (any two) 10
- (a) Opportunistic fungal infections.
 - (b) Virulence factors & lab. diagnosis of cryptococci
 - (c) Mucormycosis
- 4 Write in short : (1-2 sentences) 10
- (a) Name four bacteria causing Non Gonococcal Urethritis.
 - (b) What is Germ tube test ?
 - (c) Enumerate Dimorphic fungi.
 - (d) What are mycotoxins ?
 - (e) What is a treatment of choice in ABPA ?
 - (f) Name the viruses causes hemorrhagic fever.
 - (g) Write in brief about HACEK group.
 - (h) Enumerate four DNA viruses.
 - (i) Write about importance of widal test.
 - (j) What are the signs and symptoms of Zika virus patient ?

