

NOVEMBER 1994

[ND 617]

Second B.H.M.S Degree Examination

**Paper II - MICROBIOLOGY INCLUDING
PARASITOLOGY**

Time : Three hours

Maximum : 100 marks

Answer all questions

Answer section A and B in separate answer books

SECTION A

1. Give a brief account of the serological diagnosis of syphilis. (14)
2. Write briefly on :
 - a) Active immunity
 - b) Autoclave
 - c) Yersinia (3X6 = 18)
3. Write short notes on :
 - a) Western blot
 - b) Rabies virus
 - c) Pasteurisation (3X6 = 18)

SECTION B

4. Describe the pathogenesis and laboratory diagnosis of Bancroftian filariasis. (14)
5. Write briefly on :
 - a) Ankylostomiasis
 - b) Taenia saginata
 - c) Entamoeba histolytica (3X6 = 18)
6. Write short notes on :
 - a) Lung flukes
 - b) Plasmodium falciparum
 - c) Giardiasis (3X6 = 18)

APRIL 1995

(SB 622)

Second B.H.M.S. Degree Examination

Paper II MICROBIOLOGY AND PARASITOLOGY

Time : Three hours Maximum : 100 marks

Answer all questions

Answer Section A and B in separate answer books

Draw diagrams wherever necessary

SECTION—A

1. Define and classify immunity. Discuss the basis and principles of immunization. (14)
2. Write briefly on :
 - a) Bacterial spores
 - b) Exotoxins
 - c) Bacterial filters (3×6=18)
3. Write short notes on :
 - a) Acid-fast organisms
 - b) Interferon
 - c) Hanging drop (3×6=18)

SECTION-B

4. Describe the life cycle of Malarial parasite. (14)
5. Write briefly on :
 - a) Ent. histolytica
 - b) Ascariasis
 - c) T. Saginata (3×6=18)
6. Write short notes on :
 - a) Giardia lamblia
 - b) Micro filariae
 - c) Dracunculosis (3×6=18)

NOVEMBER 1995

[MB 1116]

Second B.H.M.S. Degree Examination

Paper II - MICROBIOLOGY AND PARASITOLOGY

Time : Three hours Maximum : 100 marks

Answer All questions

Answer sections A and B in separate answer books.

Draw diagrams wherever necessary.

SECTION - A

1. Define and classify sterilisation. Discuss about the various sterilisation methods using moist heat (14)
2. Write briefly on :
 - a) Robert Koch
 - b) Flagella
 - c) Difference between Exotoxin and Endotoxin (3×6 = 18)
3. Write notes on :
 - a) Mantoux Test
 - b) Laboratory diagnosis of Enteric fever
 - c) Chicken Pox (3×6 = 18)

SECTION - B

4. Describe the morphology, life cycle and pathogenesis of *Ascaris Lumbricoids*. (14)
5. Write briefly on :
 - a) Amoebic liver abscess
 - b) *Trichomonas vaginalis*
 - c) Thick and thin blood smear examination malarial parasites (3×6 = 18)
6. Write briefly on :
 - a) Casoni's test
 - b) Life cycle of *Wuchereria bancrofti*
 - c) Liver fluke (3×6 = 18)

APRIL 1996

[AK 1126]

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old Regulations)

Paper II — MICROBIOLOGY AND PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Answer Sections A and B in separate answer books.

SECTION A

1. Classify Media. Write in detail about enriched media. (14)
2. Write briefly on : (3 × 6 = 18)
 - (a) Louis Pasteur.
 - (b) Active immunity.
 - (c) Cell wall.
3. Write notes on : (3 × 6 = 18)
 - (a) Lab diagnosis of Syphilis.
 - (b) Vaccines.
 - (c) Autoclave.

SECTION B

4. Classify the Protozoa having flagella. Discuss in detail the lab diagnosis of Kala-azar. (14)

[AK 1126]

5. Write briefly on : (3 × 6 = 18)
 - (a) Hook worm.
 - (b) Cycleps.
 - (c) Parasites seen in peripheral blood smear.
6. Write notes on : (3 × 6 = 18)
 - (a) Black water fever.
 - (b) Hydatid cyst.
 - (c) Microfilaria.

[SV 1209]

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old/New Regulations)

Paper II — MICROBIOLOGY INCLUDING PARASITOLOGY

Time : Three hours Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Answer any ONE of the following : (14)
 - (a) Classify Hypersensitivity. Explain delayed hypersensitivity in detail.
 - (b) Describe the lab diagnosis of Mycobacterium tuberculosis.
2. Write briefly on any TWO of the following : (2 × 8 = 16)
 - (a) Flagella.
 - (b) Hot air oven.
 - (c) Transport media.
3. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Passive Immunity.
 - (b) Antibodies.
 - (c) Diseases produced by Staphylococcus.
 - (d) Ascolis thermoprecipitation test.
 - (e) Hepatitis.
 - (f) Robert Koch.
 - (g) Capsule.

SECTION B

4. Answer any ONE of the following : (14)
 - (a) Describe the life cycle and pathogenicity of Leishmania Donovan. Add a note on lab diagnosis of Kalaazar.
 - (b) Describe the life cycle and pathogenicity of plasmodium falciparum. Add a note on lab diagnosis of malaria.
5. Write briefly on any TWO of the following : (2 × 8 = 16)
 - (a) Balantidium coli.
 - (b) Ascaris lumbricoides.
 - (c) Cysticercus cellulosae.
6. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Larva migrans.
 - (b) Wuchereria bancrofti.
 - (c) Trichuris trichiura.
 - (d) Echinococcus granulosus.
 - (e) Giardia lamblia.
 - (f) Entamoeba histolytica.
 - (g) Taenia saginata.

OCTOBER 1998

[SM 1209]

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old/New Regulations)

Paper II — MICROBIOLOGY INCLUDING PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Answer any ONE of the following : (14)
 - (a) What are the different shapes and arrangement of Bacteria? Give examples for each one.
 - (b) Define Sterilization and mention different methods of Sterilization.
2. Write briefly on any TWO of the following : (2 × 8 = 16)
 - (a) Gram's Stain.
 - (b) Passive Immunity.
 - (c) Macconkey Medium.
3. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Spore
 - (b) Streptococcal Toxins
 - (c) Tetanus Prophylaxis
 - (d) Anaphylaxis
 - (e) Gaseous Sterilization
 - (f) Conjugation
 - (g) Inclusion Bodies.

SECTION B

4. Answer any ONE of the following : (14)
 - (a) Describe the life cycle of *Echinococcus granulosus* and laboratory diagnosis of Hydatid Cyst.
 - (b) Describe the life cycle of Guinea Worm (*Dracunculus medinensis*) and its Laboratory Diagnosis.
5. Write briefly on any TWO of the following : (2 × 8 = 16)
 - (a) Cercariae
 - (b) *Balantidium coli*
 - (c) *Toxoplasma Gondii*.
6. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Larva Migrans
 - (b) Vegetative form of *Entamoeba histolytica*
 - (c) Promastigote
 - (d) N.N.N. Medium
 - (e) Ovary of *Trichuris Trichura*
 - (f) Microfilariae
 - (g) Cyclops.

APRIL 1999

[SG 1209]

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old/New Regulations)

**Paper II — MICROBIOLOGY INCLUDING
PARASITOLOGY**

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Define immunity. Discuss in detail about passive immunity. Discuss in detail about the pathogenecity and Lab. diagnosis of enteric fever. (1 × 14 = 14)
2. Write briefly on any TWO : (2 × 8 = 16)
 - (a) Water born diseases
 - (b) Selective media
 - (c) Standard tests for syphilis
3. Write briefly on any FIVE : (5 × 4 = 20)
 - (a) Louis Pasteur
 - (b) Mantoux Test
 - (c) Bacterial spores

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- (d) Anaphylaxis
- (e) Lesions produced by streptococci
- (f) Tyndalisation.

- (e) Intermediate host
- (f) Lab diagnosis of Kala-azar
- (g) W. Banerjee.

SECTION B

4. Enumerate the anemia producing parasites. Discuss the morphology, pathogenesis, lab diagnosis of *ankylostoma duodenale*. (1 × 14 = 14)

Ascaris lumbricoides.

5. Write briefly on any TWO : (2 × 8 = 16)
- (a) Pathogenesis of *entamoeba histolytica*
 - (b) *T. Solium*
 - (c) Schistosomiasis.
6. Write short notes on any FIVE : (5 × 4 = 20)
- (a) *Trichomonas vaginalis*
 - (b) Complications of *falciparum malaria*
 - (c) Casoni test
 - (d) Lung fluke

[KA 1209]

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old/New Regulations)

Paper II — MICROBIOLOGY INCLUDING
PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Answer any ONE of the following : (14)
 - (a) Give a short description of sexually transmitted diseases.
 - (b) Define and classify immunity. Discuss about active immunity.
2. Write any TWO of the following : (2 × 8 = 16)
 - (a) Air-born diseases.
 - (b) Anaerobic method of cultivation.
 - (c) Morphological structure of a typical bacterial cell with suitable diagram.
3. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Coomb's test.
 - (b) Viral vaccines.
 - (c) Spores.
 - (d) Shick test.
 - (e) Tyndallisation.
 - (f) Satellitism.
 - (g) Autoclave.

SECTION B

4. Answer any ONE of the following : (14)
 - (a) Describe the life cycle, pathogenicity of *Entamoeba histolytica* and laboratory diagnosis of Amoebic dysentery.
 - (b) Morphology, life cycle and pathogenicity of *Ascaris lumbricoides*.
5. Write any TWO of the following : (2 × 8 = 16)
 - (a) Pathogenicity of *Plasmodium vivax*.
 - (b) *Diphyllo bothrium latum*.
 - (c) Classification of protozoa having flagella.
6. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Hook worm.
 - (b) Lung fluke.
 - (c) *Cysticercus cellulosae*.
 - (d) *Trichuris trichura*.
 - (e) NIH swab.
 - (f) *Toxoplasma Gondii*.
 - (g) Black water fever.

[KB 1209]

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old/New Regulations)

Paper II — MICROBIOLOGY INCLUDING
PARASITOLOGY

Time : Three hours Maximum : 100 marks

Write Section A and B in separate answer book.

SECTION A

1. Enumerate the sexually transmitted diseases.
Discuss in detail about the laboratory diagnosis of Syphilis. (1 × 14 = 14)
2. Write briefly on any TWO : (2 × 8 = 16)
 - (a) Transport media
 - (b) Widal test
 - (c) Bacterial Food poisoning.
3. Write briefly on any FIVE : (5 × 4 = 20)
 - (a) B.C.G.
 - (b) Robert Koch
 - (c) Bacterial Flagella
 - (d) Hot air oven
 - (e) Flek's agar-gel precipitation test
 - (f) Q fever.

SECTION B

4. Write in detail about the life cycle, pathogenicity and laboratory diagnosis of *Ascaris lumbricoides*. (1 × 14 = 14)
5. Write briefly on any TWO : (2 × 8 = 16)
 - (a) Primary Amoebic Meningo Encephalitis
 - (b) Chaga's disease
 - (c) Microfilaria.
6. Write short notes on any FIVE : (5 × 4 = 20)
 - (a) Visceral Larva migrans
 - (b) Black water Fever
 - (c) Laboratory diagnosis of Giardia
 - (d) *Balantidium coli*
 - (e) Cysticercosis
 - (f) N.I.H. Swab.

[KC 1209]

Sub. Code : 1209

SECOND B.H.M.S. DEGREE EXAMINATION.

(Old/New Regulations)

Paper II — MICROBIOLOGY INCLUDING
PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate Answer books.

SECTION A

1. Answer any ONE question :
 - (a) Define sterilisation and write in detail about moist heat sterilisation.
 - (b) Classify media and write in detail about anaerobic method of cultivation. (1 × 14 = 14)
2. Write briefly on any TWO of the following : (2 × 8 = 16)
 - (a) Difference between endotoxin and ecotoxin
 - (b) Hanging drop
 - (c) Culture methods.
3. Write short notes on any FIVE : (5 × 4 = 20)
 - (a) Coombs test
 - (b) Autoclave
 - (c) Lab. diagnosis of diphtheria
 - (d) Koch's postulates
 - (e) Elisa
 - (f) Bacteriophage
 - (g) Immunoglobulins.

SECTION B

4. Answer any ONE question :
 - (a) Write in detail about life cycle and pathogenesis of malarial parasite.
 - (b) Give an account of pathogenicity of *Entamoeba histolytica*. (1 × 14 = 14)
5. Write briefly on any TWO : (2 × 8 = 16)
 - (a) Hydatid cyst
 - (b) Lab. diagnosis of Kala-azar
 - (c) Parasites of peripheral blood smear.
6. Write short notes on any FIVE : (5 × 4 = 20)
 - (a) Cyclops
 - (b) Widal test
 - (c) Lung fluke
 - (d) *Giardia Intestinalis*
 - (e) *Trichuris trichura*
 - (f) VDRL
 - (g) Schizogony.