

[LK 541]

FEBRUARY 2017

Sub.Code :5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify picornaviruses. Describe the pathogenesis, clinical feature and laboratory diagnosis of polioviruses. Add a note on prophylaxis against poliomyelitis.

II. Write notes on:

(4 x 5 = 20)

1. Describe the common types and prevention of hospital acquired infections.
2. Dermatophytes.
3. Prophylaxis against rabies.
4. Laboratory diagnosis of intestinal amoebiasis.

III. Short answers on:

(5 x 2 = 10)

1. Cytopathogenic effect of viruses.
2. Antigenic shift.
3. Otomycosis.
4. Name four intestinal nematodes.
5. Spill management.

[LL 541]

AUGUST 2017

Sub.Code :5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Enumerate the arboviruses in India. Describe in detail the pathogenesis, laboratory diagnosis, treatment, prevention and control of dengue fever.

II. Write notes on:

(4 x 5 = 20)

1. Dimorphic fungi.
2. Laboratory diagnosis of malaria.
3. Blood culture.
4. Congenital toxoplasmosis.

III. Short answers on:

(5 x 2 = 10)

1. Mucormycosis.
2. Real time PCR.
3. Post exposure prophylaxis of HIV.
4. Latency in herpes simplex viral infections.
5. Negative staining in mycology.

[LM 541]

FEBRUARY 2018

Sub Code: 5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Describe the morphology and genomic structure of hepatitis B virus. Write in detail regarding epidemiology and laboratory diagnosis of HBV infection.

II. Write notes on:

(6 x 4 = 24)

1. Rabies prophylaxis.
2. Laboratory diagnosis of candidiasis.
3. Complications of falciparum malaria.
4. Cryptococcosis.
5. Amoebic liver abscess.
6. Segregation of biomedical waste.

III. Short answers on:

(6 x 1 = 6)

1. Von magnus phenomenon.
2. Herpes Zoster.
3. Enumerate four fungi causing eumycetoma.
4. Pulse polio immunization.
5. Heterazan provocation test.
6. Antigenic shift.

[LN 541]

AUGUST 2018

Sub Code: 5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Describe the morphology of HIV. Describe the pathogenesis and laboratory diagnosis of HIV infection. Add a note on pre exposure prophylaxis.

II. Write notes on:

(6 x 4 = 24)

1. Immune prophylaxis in polio.
2. Laboratory diagnosis of dermatophytosis.
3. Life cycle of plasmodium vivax.
4. Chromoblastomycosis.
5. Free living amoebae.
6. Pyrexia of unknown origin.

III. Short answers on:

(6 x 1 = 6)

1. Primary cell cultures.
2. Bacteriology of water.
3. Reynold Braude phenomenon.
4. Negri bodies.
5. Occult filariasis.
6. Antigenic drift.

[LO 541]

FEBRUARY 2019

Sub Code: 5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(3+2+1+3+1 = 10)

1. Describe the life cycle, pathogenesis, complications and laboratory diagnosis of plasmodium falciparum. Add a note on anti-malarial drugs.

II. Write notes on:

(6 x 4 = 24)

1. Larva migrans.
2. Subacute sclerosing panencephalitis.
3. Specimen collection, transport and lab diagnosis of swine flu.
4. Aspergillosis.
5. Clean catch mid-stream urine.
6. Infection control committee.

III. Short answers on:

(6 x 1 = 6)

1. Post kala-azar dermal leishmaniasis.
2. Cyclops.
3. Tzanck smear.
4. Germ tube test.
5. Polio vaccine.
6. Bacteriocins.

[LP 541]

AUGUST 2019

Sub.Code :5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 + 2 + 2 + 3 + 2 = 10)

1. Enumerate viruses causing post-transfusion hepatitis. Discuss in detail about the morphology, pathogenesis, laboratory diagnosis and prophylaxis of hepatitis B virus.

II. Write notes on:

(6 x 4 = 24)

1. Antibiotic sensitivity testing.
2. Histoplasma capsulatum.
3. Bio-medical waste management.
4. Epidemic keratoconjunctivitis.
5. Loa Loa.
6. Lab diagnosis of malaria.

III. Short answers on:

(6 x 1 = 6)

1. Name four parasitic zoonotic diseases.
2. Viral diarrhoea.
3. Lumbar puncture and collection of CSF sample.
4. Wood's lamp in mycology.
5. Prion protein.
6. Aedes aegypti as a vector.

[LQ 541]

FEBRUARY 2020

Sub.Code :5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(2 + 5 + 3 = 10)

1. Describe the morphology of HIV. Describe the pathogenesis and laboratory diagnosis of HIV infection. Add a note on pre exposure prophylaxis.

II. Write notes on:

(6 x 4 = 24)

1. Japanese B encephalitis.
2. Hepatitis vaccines.
3. Hydatid disease.
4. Histoplasmosis
5. Free living amoebae.
6. Laboratory diagnosis of bloodstream infections.

III. Short answers on:

(6 x 1 = 6)

1. Prions.
2. Aflatoxins.
3. Reynolds braude phenomenon.
4. Negri bodies.
5. Sheathed microfilaria.
6. Viral oncogenes.

[LR 541]

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub.Code :5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(3+3+4 = 10)

1. Categorise Bio-Medical waste and write BMW lifecycle and disposal Mechanisms.

II. Write notes on:

(6 x 4 = 24)

1. Life cycle of *Trichomonas vaginalis*.
2. Otomycosis.
3. Paul Bunnell test.
4. Culture methods for Parasites.
5. *Plasmodium ovale*.
6. Bacteriocins.

III. Short answers on:

(6 x 1 = 6)

1. Tzanck smear.
2. Name four Prion Diseases.
3. Antigenic shift.
4. Newer safe blood collection devices.
5. *Iodamoeba butschilli*.
6. *Rhinosporidium seeberi*.

[MBBS 0921]

**SEPTEMBER 2021
(FEBRUARY 2021 SESSION)**

Sub.Code :5064

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – MICROBIOLOGY – II**

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify Enteroviruses. Write in detail about the morphology, Pathogenesis, Lab diagnosis and Prophylaxis of Polio virus.

II. Write notes on:

(6 x 4 = 24)

1. Post exposure prophylaxis in Rabies.
2. Lab diagnosis of Human immunodeficiency Virus.
3. Neurocysticercosis.
4. Life cycle of *Wuchereria bancrofti*.
5. BMT management.
6. Opportunistic mycosis.

III. Short answers on:

(6 x 1 = 6)

1. Babesiosis.
2. Sabouraud's dextrose Agar.
3. Zygomycosis.
4. Personal Protective Equipment.
5. Name two viral haemorrhagic fevers.
6. NTEP (National Tuberculosis Elimination Programme).

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0222]

FEBRUARY 2022

Sub.Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Describe the life cycle Pathogenesis, Lab diagnosis and Management of Ancylostoma duodenale.

II. Write notes on:

(6 x 4 = 24)

1. Lab diagnosis of Filariasis.
2. Candidiasis.
3. Pyrexia of Unknown origin.
4. Hepatitis B Virus.
5. Post Exposure of Prophylaxis – HIV.
6. Epstein barr Virus.

III. Short answers on:

(6 x 1 = 6)

1. Sub acute sclerosing pan encephalitis.
2. Cryptococcosis.
3. Sub unit vaccine.
4. Otomycosis.
5. Antigenic drift.
6. Primary cell culture.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0822]

AUGUST 2022

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Classify Arboviruses. Name the Arbovirus infections prevalent in India. Write in detail about the Pathogenesis, Lab diagnosis and treatment of Dengue.

II. Write notes on: **(6 x 4 = 24)**

1. Lab diagnosis of Malaria.
2. Mucormycosis.
3. Polio vaccine.
4. Extra intestinal amoebiasis.
5. Hospital infection control committee.
6. Covid19.

III. Short answers on: **(6 x 1 = 6)**

1. Cyclops.
2. Opportunistic parasitic infection.
3. Herpes zoster.
4. Blood and Body fluids.
5. Adenovirus.
6. Sabin Feldman dye Test.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0223]

FEBRUARY 2023

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Write in detail about morphology, pathogenesis, clinical manifestations, lab diagnosis and prophylaxis of Rabies virus.

II. Write notes on:

(6 x 4 = 24)

1. Antigenic structure and clinical manifestations of Human Immunodeficiency Virus.
2. Dermatophytes.
3. Rhizopus.
4. Lab diagnosis of Hepatitis B virus.
5. Plasmodium vivax
6. Wuchereria bancrofti.

III. Short answers on:

(6 x 1 = 6)

1. Von Magnus phenomenon.
2. Reynolds Braude phenomenon.
3. Eijkman test.
4. Aflatoxin.
5. Larva migrans.
6. Dimorphic fungi.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0723]

JULY 2023

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Write in detail the morphology, pathogenesis, lab diagnosis, prophylaxis and treatment of Hepatitis B.

II. Write notes on: **(6 x 4 = 24)**

1. Replication of viruses.
2. Infectious mononucleosis.
3. Lab diagnosis of Intestinal amoebiasis.
4. Pneumocystis pneumonia.
5. Cryptococcosis.
6. Dimorphic fungi.

III. Short answers on: **(6 x 1 = 6)**

1. Negri bodies.
2. Congenital Rubella syndrome.
3. NNN medium.
4. Two parasites causing anaemia.
5. Significant bacteriuria.
6. Asteroid bodies.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0224]

FEBRUARY 2024

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify Enteroviruses. Write in detail about pathogenesis, clinical features and laboratory diagnosis of Poliomyelitis. Add a note on prophylaxis.

II. Write notes on:

(6 x 4 = 24)

1. Hepatitis E virus infection.
2. Laboratory diagnosis of Dengue.
3. Cryptococcosis.
4. Steps of Hand washing.
5. Lab diagnosis of Hydatid disease.
6. Diagnosis, control and prevention of hospital acquired infections

III. Short answers on:

(6 x 1 = 6)

1. Negri bodies.
2. Oncogenes.
3. Fungi imperfecti.
4. Examples of dimorphic fungi.
5. Bornholm disease.
6. Acute Haemorrhagic Cystitis.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0824]

AUGUST 2024

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(2+2+2+2+2= 10)

1. Enumerate the blood borne protozoan infections. Discuss in detail about the lifecycle and pathogenesis of Plasmodium falciparum infection. Brief account on laboratory diagnosis and management of Falciparum malaria.

II. Write notes on:

(6 x 4 = 24)

1. Management of Dermatophytosis.
2. Dimorphic Fungi.
3. Laboratory diagnosis of Dengue.
4. Prevention of Hepatitis B in newborn.
5. Indications of Blood culture.
6. Opportunistic fungal infections in HIV/AIDS.

III. Short answers on:

(6 x 1 = 6)

1. Laboratory diagnosis of Toxoplasmosis in pregnancy.
2. Antigenic shift in Influenza epidemiology.
3. Directly Acting Antiviral therapy.
4. Ventilator Associated pneumonia.
5. Pertussis Vaccine.
6. Primary Amoebic meningoencephalitis.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0325]

MARCH 2025

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(3+4+3= 10)

1. Classify Viruses. Write in detail on cultivation of Viruses and other Viral Diagnostic Methods in lab.

II. Write notes on:

(6 x 4 = 24)

1. Laboratory Diagnosis of Intestinal and Extra – Intestinal Amoebiasis.
2. Larva Migrans.
3. Rota Virus.
4. Rabies Vaccine.
5. Steps in the Investigation of Food Poisoning Outbreak.
6. Zygomycosis.

III. Short answers on:

(6 x 1 = 6)

1. Blood Smear for Material Parasite.
2. Loa Loa.
3. Hand Hygiene.
4. Name four Opportunistic Parasitic Infection.
5. Biphasic Blood Culture Medium.
6. Antigenic Drift.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MBBS 0725]

JULY 2025

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1+2+1+3+2+1= 10)**

1. What is Biomedical Waste?
 - a) Why Biomedical Waste Management is important?
 - b) How Biomedical Wastes are segregated, collected and disposed?
 - c) Add a note on blood spill management.

II. Write notes on: **(6 x 4 = 24)**

1. Lab diagnosis of Herpes simplex.
2. Slow viral diseases.
3. Aspergillosis.
4. Hydatid cyst.
5. Lab diagnosis of Kala azar.
6. Evaluation of quality of air in Operation Theatre.

III. Short answers on: **(6 x 1 = 6)**

1. Four viruses that cause diarrhoea.
2. Human diploid cell vaccine.
3. Otomycosis.
4. Mucormycosis.
5. Draw the diagram of fertilized egg of *Ascaris Lumbricoides*.
6. Name four Hospital acquired infections.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MBBS 0326]

MARCH 2026

Sub. Code :5064

M.B.B.S. DEGREE EXAMINATION

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER IV – MICROBIOLOGY – II

Q.P. Code: 525064

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

(2+2+2+2+2)

1. Classify Fungi. Write in detail about morphology, pathogenesis, clinical manifestation and lab diagnosis of Candidiasis.

II. Write notes on: **(6 x 4 = 24)**

1. Concentration methods of stool examination.
2. Lab diagnosis of Hepatitis B virus.
3. Cryptococcosis.
4. Intestinal amoebiasis.
5. Lab diagnosis and prophylaxis of Rabies virus.
6. Dimorphic fungi.

III. Short answers on: **(6 x 1 = 6)**

1. Interferons.
2. Larva Migrans.
3. Piedra.
4. Name four parasites causing ocular infections.
5. Casoni test.
6. Pasteurization.
