

[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 Entero viruses. 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 immuno deficiency Virus.
3. Neurocysticercosis.
4. Life cycle of Wuchereria bancrofti.
5. BMW management.
6. Opportunistic mycosis.

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

1. Babesiosis.
2. Sabourads 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. Ebstein 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.

\*\*\*\*\*