

SECOND M.B.B.S. DEGREE EXAMINATION
Revised (Non-Semester) Regulations
Paper II – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY
Q. P. Code : 524062

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. Describe the morphology, life cycle, pathogenesis, and laboratory diagnosis of Echinococcus granulosus.
2. Classify Herpes Viruses.
Describe the morphology, pathogenesis and laboratory diagnosis of acute Herpes Simplex virus.

II. Write Short notes on : **(10 x 5 = 50)**

1. Morphology and laboratory diagnosis of kalaazar.
2. Laboratory diagnosis of Urinary Tract Infection.
3. Differences between ortho myxo and Paramyxo viruses.
4. Sporotrichosis.
5. Cryptosporidium parvum.
6. Coxsachie Viruses.
7. Universal Precautions.
8. Primary amoebic meningoencephalitis.
9. Cryptococcus neoformans.
10. Microfilaria.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Vaccines against polimyelitis.
2. Four arbovirus infections prevalent in India.
3. Delta Hepatitis agent.
4. Draw the ovum of Enterobius vermicularis.
5. Two parasites infecting the eye.
6. Name two parasites causing (a) Anemia and (b) Visual larva migrans.
7. Chlamyospore.
8. Name two fungi causing oculomycosis.
9. Enumerate four dermatophytes.
10. Four organisms causing Mycetoma.

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Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. Classify Rhabdo virus.
Describe the pathogenesis, laboratory diagnosis and prophylaxis of rabies virus.
2. Classify nematodes.
Describe the life cycle and laboratory diagnosis of ankylostoma duodenale.

II. Write Short notes on :

(10 x 5 = 50)

1. Laboratory diagnosis of acute pyogenic meningitis.
2. Japanese 'B' encephalitis.
3. Opportunistic fungi.
4. Nosocomial infection.
5. Pathogenesis and laboratory diagnosis of Hydatid disease.
6. Methods of HIV transmission.
7. Exo erythrocytic schizogony.
8. Laboratory diagnosis of fungal infections.
9. Viral Haemorrhagic fevers.
10. Varicella zoster.

III. Short Answer Questions :

(10 x 2 = 20)

1. Name four DNA viruses.
2. Draw and label a bacteriophage.
3. Define definitive host. Give two examples.
4. Otomycosis.
5. Trichomonas Vaginalis.
6. Mention four species of candida.
7. Complications of ascariasis (roundworm infestation).
8. Define an intermediate host.
9. Mention three antifungal agents.
10. Complication of dengue virus.

[KV 541]

AUGUST 2009

Sub. Code : 4062

SECOND M.B.B.S. DEGREE EXAMINATION
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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. Name the viruses infecting the liver.

Write the morphology, pathogenesis lab diagnosis and prophylaxis of hepatitis B virus.

2. Name the Haemoflagellates.

Write the morphology, life cycle, clinical features and lab diagnosis of kala azar.

II. Write Short notes on :

(10 x 5 = 50)

1. Viral multiplication.

2. Mycetoma.

3. Interferons.

4. Chikungunya virus.

5. Free living amoebae.

6. Life cycle of *Balantidium coli*.

7. Life cycle of *taenia solium*.

8. Stool examination of parasitic infections.

9. Candidiasis.

10. Dermatophytes.

III. Short Answer Questions :

(10 x 2 = 20)

1. Morphology of HIV virus.

2. Von magnus phenomenon.

3. Write four differences between salk and sabin vaccines.

4. Paul Bunnell test.

5. Draw the morphology of penicillium.

6. Name two pigment producing fungi.

7. Life cycle of *taenia saginata*.

8. Draw the diagram of ascaris egg.

9. N.N.N. Medium (Novy, Bicolle, Mcneal).

10. Name four oppurtunistic parasitic infections in AIDS.

[KW 541]

FEBRUARY 2010

Sub. Code : 4062

SECOND M.B.B.S. DEGREE EXAMINATION
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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. Describe the lifecycle, pathogenesis and laboratory diagnosis *Ascaris lumbricoides*.
2. Describe the pathogenesis, laboratory diagnosis and prophylaxis of poliomyelitis.

II. Write Short notes on : **(10 x 5 = 50)**

1. Extra intestinal amoebiasis.
2. Complications produced by *Plasmodium falciparum*.
3. Larva migrans.
4. Casoni test.
5. Diagnosis and prophylaxis of H1N1 infection.
6. Rhinosporidiosis.
7. Prions.
8. Interferon.
9. Dimorphic fungi.
10. Antigenic drift.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Name four fungi causing opportunistic mycosis.
2. Fungi causing superficial mycosis.
3. Classify inclusion bodies.
4. Universal precautions.
5. Draw the diagram of microfilaria.
6. Name four parasites causing CNS infection.
7. Name the concentration methods of stool EXAMINATION
8. Koplik spots.
9. Name the live viral vaccines.
10. *Cryptosporidium*.

[KX 541]

AUGUST 2010

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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. Enumerate parasites causing Anemia. Describe in detail, morphology, life cycle and laboratory diagnosis of Ankylostoma duodenale.
2. Describe the morphology, pathogenesis and laboratory diagnosis of influenza virus.

II. Write Short notes on : **(10 x 5 = 50)**

1. Cytopathic effect.
2. Subcutaneous mycosis.
3. Dengue virus.
4. Life cycle of Entamoeba histolytica.
5. Dermatophytes.
6. Cryptococcus neoformans.
7. Toxoplasma gondii.
8. Cysticercus Cellulosae.
9. Life cycle of Ascaris Lumbricoidis.
10. Lab Diagnosis of Malaria.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Three methods of cultivation of viruses.
2. Viral interferons.
3. Hepatitis markers.
4. Complication of neural vaccine.
5. Bile-Stained eggs.
6. Germ Tube Technique.
7. Diagram of Trichomonas – Vaginalis.
8. MMR.
9. Life cycle of Balantidium – coli.
10. Visceral larva migrans.

[KY 541]

FEBRUARY 2011

Sub. Code : 4062

SECOND M.B.B.S. DEGREE EXAMINATION
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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. Name the various haemoflagellates.
Discuss the life cycle of Leishmania Donovanii and describe the laboratory diagnosis of Kala-azar.
2. Discuss the various methods for isolation of viruses in the laboratory.

II. Write Short notes on :

(10 x 5 = 50)

1. Bacteriophage.
2. Prophylaxis of rabies.
3. Oncogenes.
4. Laboratory diagnosis of urinary tract infection.
5. Superficial mycoses.
6. Antibiogram.
7. Dimorphic fungi.
8. Cryptosporidium Parvum.
9. Examination of faeces for parasitic infection.
10. Classification of Nematodes according to the habitat of adult worms.

III. Short Answer Questions :

(10 x 2 = 20)

1. Bachman Intradermal test.
2. Oviparous nematodes.
3. Free living amoebae.
4. Deltavirus.
5. Orf.
6. Live viral vaccines.
7. Germ tube test.
8. Otomycosis.
9. RT-PCR.
10. Infection control policy.

[KZ 541]

AUGUST 2011

Sub. Code : 4062

SECOND M.B.B.S. DEGREE EXAMINATION
Revised (Non-Semester) Regulations
Paper II – VIROLOGY, MYCOLOGY, PARASITOLOGY
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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. Describe the morphology, pathogenesis and laboratory diagnosis of Hepatitis B virus.
2. Enumerate the intestinal nematodes of medical importance.
Describe the morphology, life cycle and laboratory diagnosis of *Ascaris lumbricoides*.

II. Write Short notes on :

(10 x 5 = 50)

1. Viral cell cultures.
2. Measles virus.
3. Rota virus.
4. Rhinosporidiosis.
5. Cysticercosis.
6. Concentration methods for stool EXAMINATION
7. Primary anaerobic meningo encephalitis.
8. Laboratory diagnosis of HIV infection.
9. Opportunistic fungal infections.
10. Bacteriology of milk.

III. Short Answer questions :

(10 x 2 = 20)

1. Name four dimorphic fungi.
2. Name the medically important trematodes.
3. Name the opportunistic viral infections in AIDS.
4. Name the killed viral vaccines.
5. Mention the diseases caused by Coxsackie virus.
6. Diagram of *Balantidium coli*.
7. Name four medically important candida.
8. Name the parasites causing anaemia.
9. Ectothrix and Endothrix infection of hair.
10. Name the virus causing conjunctivitis.

SECOND M.B.B.S. DEGREE EXAMINATION
Revised (Non-Semester) Regulations
Paper II – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY

Q. P. Code : 524062

Time : 180 Minutes

Maximum: 40 Marks

Answer **ALL** questions in the same order.
Draw Suitable diagrams wherever necessary

I. Elaborate on :

1. Classify nematodes. Describe the life cycle and laboratory diagnosis of hookworm.
(10 x 1 = 10)
2. Describe the pathogenesis, laboratory diagnosis and prophylaxis of poliomyelitis.
(5 x 1 = 5)

II. Write notes on :

(10 x 1.5 = 15)

1. Dimorphic fungi
2. Varicella zoster
3. Laboratory diagnosis of urinary tract infections
4. Dermatophytes
5. Free living amoebae
6. Extra intestinal amoebiasis
7. Prions
8. Universal precautions
9. Antigenic drift
10. Dengue virus.

III. Short Answers on :

(10 x 1 = 10)

1. Classify inclusion bodies
2. Mention three antifungal agents
3. Live viral vaccine
4. Name two pigment producing fungi
5. Name two parasites infecting the eye
6. Germ tube test
7. Hepatitis markers
8. Name three blood borne viruses
9. Name the concentration methods of stool examination
10. Name four bile stained ova.

SECOND M.B.B.S. DEGREE EXAMINATION**Paper II – VIROLOGY, MYCOLOGY, PARASITOLOGY****AND APPLIED MICROBIOLOGY***Q. P. Code : 524062***Time : 180 Minutes****Maximum: 40 Marks**Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Classify filarial worms. Write in detail about the life cycle, pathogenesis and laboratory diagnosis of <i>Wuchereria bancrofti</i> . | 16 | 30 | 10 |
| 2. Name the hepatotropic viruses. Write in detail about the pathogenesis and laboratory diagnosis of hepatitis B virus. | 8 | 20 | 5 |

II. Write notes on:

- | | | | |
|--|---|---|-----|
| 1. Viral haemagglutinin. | 3 | 8 | 1.5 |
| 2. Polio vaccine. | 3 | 8 | 1.5 |
| 3. Cytomegalovirus. | 3 | 8 | 1.5 |
| 4. Chromomycosis. | 3 | 8 | 1.5 |
| 5. Mycotic keratitis. | 3 | 8 | 1.5 |
| 6. Giardiasis. | 3 | 8 | 1.5 |
| 7. Polymerase chain reaction. | 3 | 8 | 1.5 |
| 8. Role of vectors in transmission of infectious agents. | 3 | 8 | 1.5 |
| 9. Normal microbial flora. | 3 | 8 | 1.5 |
| 10. Trichinellosis. | 3 | 8 | 1.5 |

III. Short Answers:

- | | | | |
|--|---|---|---|
| 1. Viral plaques. | 2 | 5 | 1 |
| 2. Name four oncogenic viruses. | 2 | 5 | 1 |
| 3. Name four viruses transmitted through mosquito. | 2 | 5 | 1 |
| 4. Ectothrix. | 2 | 5 | 1 |
| 5. Classify fungi based on morphology. | 2 | 5 | 1 |
| 6. Name four dimorphic fungi. | 2 | 5 | 1 |
| 7. Diagnosis of congenital HIV infection. | 2 | 5 | 1 |
| 8. Fungal spores. | 2 | 5 | 1 |
| 9. Name four parasites do not require intermediate host. | 2 | 5 | 1 |
| 10. Name two viviparous nematode. | 2 | 5 | 1 |

SECOND M.B.B.S. DEGREE EXAMINATION
Paper II – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY

Q. P. Code : 524062

Time : 180 Minutes

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:

(2 x 15 = 30)

1. Classify Arbo viruses.
Discuss briefly on pathogenesis and laboratory diagnosis of Dengue fever.
2. Discuss briefly on laboratory diagnosis of Leishmaniasis.

II. Write notes on :

(10 x 5 = 50)

1. Viral inclusion bodies.
2. Recent swine flu pandemic
3. Lab diagnosis of Hepatitis B infection
4. Viral gastroenteritis
5. Extra intestinal Amoebiasis
6. Visceral larva migrans
7. Bile stained eggs
8. Lab diagnosis of Filariasis.
9. Pneumocystis jirovecii
10. Superficial mycoses

III. Short Answers on:

(10 x 2 = 20)

1. Name two contraindications for MMR vaccine.
2. Name the transmitting agent of Yellow fever.
3. What is Dane particle?
4. Name two human slow viral infections.
5. Name a parasite transmitted by sexual contact.
6. Name the skin test used for the diagnosis of Hydatid cyst.
7. Name the definitive host of Wuchereria bancrofti.
8. Name the causative agent of cerebral malaria.
9. Name the mycotoxin produced by Aspergillus flavus.
10. Name two antifungal agents.

[LD 541]

AUGUST 2013

Sub. Code : 4062

SECOND M.B.B.S. DEGREE EXAMINATION

**Paper II – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY**

Q. P. Code : 524062

Time : 180 Minutes

Maximum: 40 Marks

Answer ALL questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:

(2 x 7.5 = 15)

1. Discuss briefly on Immunoprophylaxis of viral diseases.
2. Describe the Life cycle of *Drucunculus medinensis*.

II. Write notes on:

(10 x 1.5 = 15)

1. Dermatophytes
2. Otomycosis
3. Viral haemorrhagic fevers.
4. Cytopathic effects
5. Lab diagnosis of Hepatitis C
6. Herpes zoster
7. Role of cyclops in parasitic diseases.
8. Viviparous parasites.
9. Free living amoeba.
10. Significant bacteriuria.

III. Short Answers on:

(10 x 1 = 10)

1. Name two opportunistic diseases associated with HIV.
2. What is the normal range of CD4 count?
3. Name the transmitting agent of Yellow fever.
4. What are Hypnozoites?
5. Name two hepatitis viruses associated with cirrhosis.
6. Name two media used for fungal culture.
7. Name the largest and the smallest tapeworms infecting humans.
8. Name the infective stage of *Ancylostoma duodenale*.
9. What is the pH of Sabourauds dextrose agar?
10. What is swimmers itch?

SECOND YEAR MBBS DEGREE EXAMINATION
Paper IV – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY

Q. P. Code: 524062

Time : 180 Minutes

Maximum: 40 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:

(2 x 7.5 = 15)

1. List out the malarial parasites infecting man.
Describe the complications and Laboratory diagnosis of Malignant tertian Malaria.
2. Discuss briefly on viral vaccines.

II. Write Notes on:

(10 x 1.5 = 15)

1. Interferons – types and importance.
2. Pathogenesis and complications of Measles.
3. Viral haemorrhagic fevers.
4. Suckling mice – Definition & uses in virology.
5. Role of Cyclops in parasitic diseases.
6. Larval forms of Diphyllbothrium latum.
7. Cutaneous Larva migrans.
8. Viviparous parasites.
9. Dimorphic fungi.
10. Significant bacteriuria.

III. Short Answers on:

(10 x 1 = 10)

1. Name two Epstein-barr virus associated malignancies.
2. What is antigenic shift?
3. Name the transmitting agent of Chikungunya.
4. Name two hepatitis viruses producing chronic infection.
5. Name two parasitic diseases in which man is the intermediate host.
6. Name two opportunistic amoebae.
7. Name two bile stained parasitic eggs.
8. Name the infective stage of Ancylostoma duodenale.
9. What is the pH of Sabourauds dextrose agar?
10. What is the use of Casoni test?

SECOND YEAR M.B.B.S DEGREE EXAMINATION
Paper IV – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY

Q. P. Code: 524062

Time: Three Hours

Maximum: 40 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 7.5 = 15)

1. Classify Herpes viruses. Discuss the Laboratory diagnosis of chicken pox.
2. Discuss the pathogenesis and laboratory diagnosis of Kala Azar.

II. Write Notes on:

(10 x 1.5 = 15)

1. Tinea versicolor
2. Extraintestinal amoebiasis
3. Tissue culture in viruses
4. Ancylostoma duodenale
5. Prophylaxis of Influenza
6. Toxoplasma gondii
7. Mycetoma
8. Bacteriophage
9. Sporotrichosis
10. Laboratory diagnosis of poliomyelitis.

III. Short Answers on:

(10 x 1 = 10)

1. Name the parasites that cause anemia. Mention the type of anemia caused.
2. What are free living amoebae? Name them
3. What are the media used for fungal cultivation?
4. Name the most common bacteria causing nosocomial infections.
5. What is germ tube test?
6. What are calabar swellings? Which parasite causes this lesion?
7. What are the complications of Ascaris infection?
8. What is cysticercus cellulosae?
9. Name the parasites that produce operculated eggs.
10. What is benign tertian malaria? Name the parasite that causes it.

[LG 541]

FEBRUARY 2015

Sub.Code :4062

**SECOND YEAR M.B.B.S. DEGREE EXAMINATION
PAPER IV – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY**

Q.P. Code: 524062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Enumerate the viruses transmitted by blood transfusion. Write in detail about Hepatitis B virus and its Prophylaxis.

II. Write notes on:

(4 x 5 = 20)

1. Cutaneous and Genital warts
2. Rhinovirus Infection
3. Coccidioidomycosis
4. Microfilaria

III. Short answers on:

(5 x 2 = 10)

1. Define Bacteremia, Septicemia, Pyemia and Endotoxemia
2. How can the Virus be Isolated in the Laboratory?
3. Eijkman test
4. Superficial Mycoses
5. Balantidium Coli

[LH 541]

AUGUST 2015

Sub. Code: 4062

SECOND M.B.B.S. DEGREE EXAMINATION
PAPER IV – VIROLOGY, MYCOLOGY, PARASITOLOGY
AND APPLIED MICROBIOLOGY

Q.P. Code: 524062

Time : Three Hours

Maximum : 40 marks

Answer ALL questions

I. Elaborate:

(1 x 10 = 10)

1. Write an essay on Emerging and Reemerging Infections and the factors responsible for this.

II. Write notes on :

(4 x 5 = 20)

1. Human Herpes Virus.
2. Prophylaxis against Poliomyelitis.
3. Japanese encephalitis.
4. Laboratory diagnosis of Malaria.

III. Short answers on :

(5 x 2 = 10)

1. Discuss various methods of detecting viral growth in cell culture.
2. Von Magnus Phenomenon.
3. Creeping eruption.
4. Malignancies associated with Epstein-Baar Virus.
5. Phage Typing.

[LI 541]

FEBRUARY 2016

Sub. Code: 4062

SECOND YEAR M.B.B.S. DEGREE EXAMINATION
PAPER IV – VIROLOGY, MYCOLOGY PARASITOLOGY
AND APPLIED MICROBIOLOGY

Q.P. Code : 524062

Time : Three Hours

Maximum : 40 Marks

Answer ALL questions

I. Elaborate on:

(1 x 10 = 10)

1. Explain the pathogenesis, epidemiology, laboratory diagnosis and prevention of HIV infection.

II. Write notes on:

(4 x 5 = 20)

1. Neurocysticercosis.
2. Life cycle of hookworm.
3. Dengue.
4. Candidiasis.

III. Short answers on:

(5 x 2 = 10)

1. List four viruses which can cause cancer in humans.
2. Vector for Kala-azar, cerebral malaria, Kyasanur Forest disease and chikungunya.
3. Name four dimorphic fungi.
4. Prevention of hepatitis B virus infection.
5. Peripheral blood smear findings in vivax malaria.

[LJ 541]

AUGUST 2016

Sub.Code :4062

**SECOND YEAR M.B.B.S. DEGREE EXAMINATION
PAPER IV – VIROLOGY, MYCOLOGY, PARASITOLOGY &
APPLIED MICROBIOLOGY**

Q.P. Code: 524062

Time: Three hours

Maximum: 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. List the common blood and tissue flagellates causing human disease. Describe the pathogenesis, clinical features, lab diagnosis and prophylaxis of Chaga's disease.

II. Write notes on:

(4 x 5 = 20)

1. Measles
2. Histoplasmosis
3. Chikungunya
4. Hydatid cyst

III. Short answers on:

(5 x 2 = 10)

1. Features used for identification of *W.bancrofti* microfilaria in blood smear.
2. Differences between fixed and street rabies virus.
3. Modes of HIV transmission in humans.
4. CSF findings in acute bacterial meningitis.
5. Scolex of *T.solium*.
