

April-2001

[KD 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

(New/Revised Regulations)

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Classify the genus plasmodia. Discuss the life cycle pathogenicity and lab diagnosis of malaria. Add a note on recent malarial vaccines. (25)
 2. Describe the human immuno deficiency type I virus. What is the present position as regards AIDS in India? (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Rabies vaccines.
 - (b) Ebola virus.
 - (c) Viral gastroenteritis.
 - (d) Dermal leishmaniasis.
 - (e) Hydatid disease.
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November-2001

[KE 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

(Old/New/Revised Regulations)

Branch IV — Microbiology

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Classify Retroviruses, listing out human pathogens. Describe the morphology, antigenic variation of HIV and discuss the laboratory diagnosis of HIV infection. (25)
 2. What are the methods to improve the chances of finding malarial parasite in blood? Add a note on quantitative estimation and new approaches to diagnose malaria. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Coproculture for nematode larvae.
 - (b) Unconventional infections agents.
 - (c) Pseudo-hookworm disease.
 - (d) Nephropathia epidemica.
 - (e) Continuous cell lines.
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March-2002

KG 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours , -Maximum : 100 marks

Describe the morphology, classification and pathogenicity of picorna viruses. (25)

Describe the unique features of strongyloides infection in man. Discuss the different methods of diagnosis of strongyloides infection. (25)

Write briefly on : (5 × 10 = 50)

- (a) Prions.
 - (b) Hanta viruses.
 - (c) Recombinant viral vaccines.
 - (d) Plasmodium falciparum.
 - (e) Intestinal flukes.
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[KH 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — MICROBIOLOGY

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Classify viviparous parasites. Discuss the pathogenicity and laboratory diagnosis of human filariasis. (25)
2. Discuss influenza viruses, its pathogenicity and laboratory diagnosis. Briefly state the usefulness of influenza vaccines. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) *Toxoplasma gondii*
 - (b) Concentration techniques of examination of stool for ova and cyst
 - (c) *Larva migrans*
 - (d) Anti viral agents
 - (e) Hepatitis C virus.

April-2003

[KI 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Microbiology

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the developments in diagnosis of falciparum malaria and its complications. Add a note on status of malarial vaccines. (25)
 2. What are picorna viruses? Discuss pathogenicity structure, properties of poliomyelitis virus with special emphasis on strategies of pulse polioprogramme. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Cerebral cysticercosis
 - (b) Lassa fever
 - (c) Toxoplasma gondii
 - (d) Infections mononucleosis
 - (e) Antiviral compounds for HIV infections.
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[KJ 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Microbiology

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours , Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions on the first page of M.C.Q. Booklet.

Answer **ALL** questions.

Draw suitable diagrams wherever necessary.

1. Discuss transfusion associated hepatitis viruses with laboratory diagnosis and interpretation of serological markers. (15)
2. Discuss in detail the larval cestode infections. (15)
3. Write short notes on : (10 × 5 = 50)
 - (a) Human prion diseases.
 - (b) H HV8.

(c) Pathogenesis and Laboratory diagnosis of Dengue haemorrhagic fever.

(d) HAART.

(e) Collection, transport and preparation of specimens for virological examination.

(f) Endemic haematuria.

(g) Non morphologic diagnosis of parasitic infections.

(h) Immunity in malaria and strategies for vaccine design.

(i) Primary amoebic meningo encephalitis.

(j) Zoonotic filarial infections.

[KL 120]

Sub. Code : 2017

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Microbiology

Paper III — VIROLOGY AND PARASITOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
Forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(2 × 15 = 30)

(1) Describe the structure, pathogenesis and laboratory diagnosis of HIV. Add a note on the National strategies of HIV testing in India.

(2) Enumerate the filarial nematodes that cause human disease and describe the pathogenesis, laboratory diagnosis of *Wuchereria bancrofti*. Add a note on modern methods of diagnosis.

II. Write short notes on :

(10 × 5 = 50)

- (a) Primary amoebic meningo encephalitis.
- (b) Malarial vaccines.
- (c) Concentration techniques in stool examination.
- (d) *Toxoplasma gondii*.
- (e) *Pneumocystis Carinii*.
- (f) Human prion diseases.
- (g) HAART.
- (h) Techniques of identification of viral cultures.
- (i) Influenza viruses.
- (j) Mechanism of action of antiviral agents.