

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**THIRD SEMESTER M.Sc. (MEDICAL MICROBIOLOGY)**  
**DEGREE EXAMINATION – JANUARY 2021**

**SUBJECT: VIROLOGY (MIC 701)**

Monday, January 25, 2021

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

- ✍ Answer all questions. Write answers that are clear, relevant & legible.  
✍ Illustrate your answers with neatly drawn and correctly labelled diagram wherever appropriate

1. Discuss pathogenesis and prophylaxis of poliomyelitis. (5+5 = 10 marks)

2. Describe pathogenesis of AIDS. Add a note on Western blot test for HIV infection. (8+2 = 10 marks)

3. Write short notes on the following:

3A. Cytopathic effect.

3B. Antigenic variation in influenza viruses.

3C. Laboratory diagnosis of Hepatitis A virus infection.

3D. Japanese B encephalitis.

3E. MMR vaccine.

3F. Human prion diseases.

(5 marks × 6 = 30 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**THIRD SEMESTER M.Sc. (MEDICAL MICROBIOLOGY) DEGREE**  
**EXAMINATION – JANUARY 2021**

**SUBJECT: PARASITOLOGY (MIC 703)**

Wednesday, January 27, 2021

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ **Answer ALL the questions.**

1. Describe the life cycle, pathogenesis and laboratory diagnosis Kala azar.  
(4+3+3 = 10 marks)
  
2. Enumerate the parasites causing anaemia. Explain the life cycle, pathogenesis and laboratory diagnosis of *Ancylostoma duodenale*.  
(1+4+3+2 = 10 marks)
  
3. **Write short notes on:**
  - 3A. Toxoplasmosis
  - 3B. *Cysticercus cellulosae*
  - 3C. Blackwater fever
  - 3D. Microfilaria
  - 3E. Lung fluke
  - 3F. Stool concentration techniques

(5 marks × 6 = 30 marks)

