

Madhya Pradesh Medical Science University, Jabalpur

MBBS Second Professional Examination June-2023

Paper Code- 23BM0000100382

Subject- Microbiology (Old Scheme)

Paper II

Time : 3:00 Hours

Maximum Marks :40

Instructions:

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- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.
- d) MCQ has to be answered in theory answer book.
- e) Please write MCQ answer neatly and in serial order with black or blue pen in brackets for example:- 1. (a) 2. (b)
- f) MCQ has to be answered only once, any kind for repetition or cutting or erasing or whitener will be consider as malpractice. Such answers will not be counted in the marks and action will be taken according to CFM rules of University

Q.1 Total MCQs : 16

[16 X ½ = 8]

1. Subacute sclerosing panencephalitis (SSPE) is a complication following which viral infection?

- a. Mumps
- b. Measles

- c. Rubella
 - d. Influenza
2. Which of the following statements about rhinoviruses is correct?
- a. Amantadine protects against infection.
 - b. There are three antigenic types.
 - c. They do not survive on environmental surfaces.
 - d. They are the most frequent causative agent of the common cold.
3. Which of the following poxviruses infects only humans?
- a. Monkeypox
 - b. Cowpox
 - c. Tanapox
 - d. Molluscum contagiosum
4. What is the primary route of transmission of human coronaviruses?
- a. Blood
 - b. Respiratory
 - c. Perinatal mother-to-infant
 - d. Fecal-oral
5. Which one of the following is not a common member of the normal human flora or microbiota?
- a. *Candida tropicalis*
 - b. *Candida glabrata*
 - c. *Malassezia globosa*

- d. *Cryptococcus neoformans*
6. Which of the following virus does not use the CXCR4 molecule as a receptor.
- a. SIV
 - b. Poliovirus
 - c. HIV-2
 - d. HIV-1
7. Which of the following virus is spread by arthropods.
- a. HIV
 - b. Influenza virus
 - c. Arbovirus
 - d. Rhinovirus
8. Which of the following phase determines the specificity of the virus.
- a. Uncoating
 - b. Release
 - c. Attachment
 - d. Penetration
9. Aspergillosis is recognized in tissue by the presence of.
- a. Metachromatic granules
 - b. Psuedohyphae
 - c. Septate hyphae
 - d. Budding cells

10. In malaria, the form of plasmodia transmitted from mosquito to human is the.

- a. Sporozoite
- b. Gametocyte
- c. Merozoite
- d. Hypnozoite

11. Pigs or dogs are the sources of human infection by each of the following parasites except.

- a. Echinococcus granulosus
- b. Taenia solium
- c. Ascaris lumbricoides
- d. Trichinella spiralis

12. Which of the following diseases is tick borne?

- a. Yellow fever
- b. Dengue
- c. Kyasanur forest disease
- d. Japanese encephalitis

13. Cryptococcus neoformans is

- a. dimorphic
- b. mold
- c. yeast-like
- d. yeast

14. Common name of *Trichuris trichiura* is

- a. Pinworm
- b. Roundworm
- c. Hookworm
- d. Whipworm

15. Which of the following hepatitis virus is non-enveloped:

- a. HAV
- b. HBV
- c. HCV
- d. HDV

16. The symmetry of nucleocapsid of poxvirus is:

- a. Icosahedral
- b. Helical
- c. Complex
- d. None of the above

Q. 2. Long Answer Question

2 X 5 = 10

- a. Describe the pathogenesis and laboratory diagnosis of rabies. Add a note on pre- and post-exposure prophylaxis for rabies prevention.
- b. Classify nematodes. Describe the life cycle, pathogenesis and laboratory diagnosis of *Ascaris lumbricoides*.

Q3 Short Answer Question

4 X 3 = 12

- a. Dermatophytes

- b. Opportunistic fungal infections associated with HIV
- c. Biomedical waste management.
- d. Laboratory diagnosis of *Entamoeba histolytica* infection.

Q4 Very Short Answer Question

10X 1 = 10

- a. Name two important complications of falciparum malaria.
- b. What is TORCH.
- c. Name two oncogenic viruses.
- d. Draw the diagram of Embryonated egg.
- e. What are inclusion bodies? Give any 2 examples.
- f. Germ tube test.
- g. Give two examples of live attenuated vaccines used for viral diseases.
- h. Enumerate four dimorphic fungi.
- i. Draw a well labelled diagram of HIV.
- j. Draw a well labelled diagram of hydatid cyst.
