

MBBS II (Second) Professional Examination 2015-16

Course Code:MBS202

Paper ID: 0322407

Microbiology-II

Time: 2 Hours 40 Minutes

Max Marks: 30

Note: Attempt all questions. Draw proper diagrams to support your answer.

Part 'B'

1. Enumerate the nematodes causing intestinal infections. Give flow diagram of the life cycle of one such parasite; discuss its pathogenesis and laboratory diagnosis. (7)
2. Define AIDS. Discuss the pathogenesis of HIV, its laboratory diagnosis and drugs available for the therapy. (7)
3. Describe briefly: (8x2=16)
 - a) Opportunistic fungal infections
 - b) Hypersensitivity reactions

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Roll No.

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Student's Signature

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Course Code:MBS202

Student's Name

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Invigilator's Signature

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Paper ID: 0322407

Microbiology-II

Part 'A'

Time: 20 Minutes

Max Marks: 10

- Note:**
1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes.
 2. Please tick (✓) correct one only. Cutting, overwriting or any other marking are not allowed.
 3. For answering please use Ball- pen only.

Q.2 In malaria, the form of plasmodia that is transmitted from HUMAN to Mosquito is the:

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

Q.3 Each of the following parasite is transmitted by mosquitoes except:

- a) *Plasmodium vivax*
- b) *Wuchereria bancrofti*
- c) *Leishmania donovani*
- d) *Plasmodium falciparum*

Q.4 Which of the following parasite normally does not cause Larva migrans;

- a) *Enterobius vermicularis*
- b) *Toxocara canis*
- c) *Ancylostoma braziliense*
- d) *Ancylostoma canis*

Q.5 Each of the following statements concerning *Candida albicans* is correct except:

- a) *C. albicans* is a budding yeast that forms pseudohyphae when it invades tissue
- b) **C. albicans** causes thrush
- c) *C. albicans* is transmitted primarily by respiratory aerosol
- d) Impaired cell mediated immunity is an important predisposing factor to disease

Q.6 Which of the following is not the characteristics of histoplasmosis:

- a) Specific geographic distribution
- b) Yeasts in tissue
- c) Mycelial phase in the soil
- d) Person to person transmission

Q.7 A girl who pricked her finger while pruning some rose bushes develops a local pustule that progresses to an ulcer. Several nodules

- b) Detection of viral-specific IgD
- c) Detection of viral-specific IgE
- d) Detection of viral-specific IgM

Q.14 Which of the following virus is not transmitted from animals to human:

- a) Influenza virus H5N1
- b) Hepatitis B virus
- c) Rabies virus
- d) Ebola virus

Q.15 Which of the following marker usually present in a hepatitis B carrier with chronic active hepatitis:

- a) HbsAg
- b) HbsAb
- c) HBeAg
- d) Anti-HBc IgM

Q.16 Which of the following bacteria is an indicator of fecal contamination of drinking water:

- a) *Klebsiella pneumoniae*
- b) *Staphylococcus aureus*
- c) *Bacillus subtilis*
- d) *Escherichia coli*

Q.17 What is the acceptable limit of bacterial count in air of neurosurgery operation theatre:

- a) 1 per cubic feet
- b) 10 per cubic feet
- c) 100 per cubic feet
- d) 40 per cubic feet

Q.18 Which color code plastic bag is used for microbial contaminated medical waste e.g. culture media:

- a) Red bag
- b) Black bag
- c) Yellow bag
- d) Blue bag

Q.19 Which of the following vaccine should be given at the time of birth:

- a) BCG
- b) MMR
- c) DPT
- d) Measles

Q.20 Burning and frequency of maturation usually occurs in:

- a) Cystitis
- b) Pyelonephritis
- c) Prostatitis

Q.8 Aspergillosis is recognized in tissue by the presence of:

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- a) Metachromatic granules
- b) Pseudohyphae
- c) Septate hyphae
- d) Budding cells

P.T.O.

Q.9 Each of the following statements concerning *Cryptococcus neoformans* is correct EXCEPT:

- a) Its natural habitat is the soil, especially associated with pigeon feces
- b) Budding yeasts are found in the lesions
- c) The initial site of infection is usually the lung
- d) Pathogenesis is related primarily to the production of exotoxin A

Q.10 Infection with dermatophyte is most often associated with:

- a) Intravenous drug abuse
- b) Inhalation of the organism from contaminated bird feces
- c) Adherence of the organism to perspiration moist skin
- d) Fecal-oral transmission

Q.11 Viruses do not contain:

- a) Either DNA or RNA
- b) Enzymes
- c) Both RNA and DNA
- d) Glycoprotein

Q.12 Which one of the following is not a method of direct detection viruses in clinical samples:

- a) Electron microscopy
- b) Antibodies
- c) PCR
- d) Antigen

Q.13 A serological diagnosis of a primary viral infection may be made:

- a) Detection of viral-specific IgA

- d) Proctitis