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H-6822

M.Sc. (Semester-II) Examination, July 2022

MICROBIOLOGY

(Medical Microbiology)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 25

Note : This questions paper is divided into four sections. Attempt questions from all the four sections as directed. Distribution of marks is given in each section.

SECTION-A

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark. [1x10=10]

1. (i) If an infection is transmitted through water, the transmission is called :

(a) Vector transmission

(b) Droplet transmission

(c) Indirect contact transmission

(d) Vehicle transmission

(ii) Treponema paliidum responsible for causing which of the following :

(a) Syphilis

(b) Gonorrhea

(c) Chancroid

(d) Herpes

(iii) An infectious agent only multiplying inside living cells :

(a) Protozoa

(b) Parasite

(c) Virus

(d) Bacteria

(iv) Coccidioidomycosis is also called :

(a) Death fever

(b) Valley fever

(c) Chache fever

(d) Black fever

(v) Mucormycosis is most often seen in :

(a) Diabetic patient

(b) Arthritic patient

(c) High BP patient

(d) Migrane patient

(vi) Which of the following is the drug of choice for sporotrichosis?

(a) Intraconazole

(b) Amphotericin B

(c) Ketoconazole

(d) Paraconazole

(vii) HIV attacks which type of cells in immune system?

(a) T-helper cells

(b) T - cytotoxic cells

(c) T - regulatory cells

(d) Platelets

(viii) Which of the following could be called immune disorder ?

(a) Cholera and Hepatitis

(b) SCID and AIDS

(c) Hepatitis and Leukemia

(d) Typhoid and Cholera

(ix) The confirmatory test used to diagnose AIDS is :

(a) ELISA

(b) Western blot

(c) ESR

(d) RCR

(x) In malaria, the form of plasmodia that is transmitted from mosquito to human is :

(a) Sporozoite

(b) Gametocytes

(c) Merozoite

(d) Hypnozoite

(xi) Which of the following is a treatment of pulmonary zygomycosis ?

(a) Sulfamethoxazole

(b) Trimethoprim

(c) Caspofungin

(d) Amphotericin B

(xii) Which of the following is not a cause of epidemic encephalitis ?

(a) Herpes Simplex virus

(b) West Nile virus

(c) Nipah virus

(d) Japanese encephalitis virus

SECTION-B

(Very Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **02** marks. (Word limit **25-30** words) [5x2=10]

2. (i) What is virulent factor?

(ii) Write the name of four sexually transmitted diseases.

(iii) What is mycosis?

(iv) What is the full form of "Covid 19"?

(v) Define Leishmaniasis.

(vi) What is hospital acquired infection?

(vii) Name two antifungal drugs.

SECTION-C

(Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **04** marks. (Word limit **250** words) [5x4=20]

3. (i) Describe the transmission of infectious disease.

(ii) Describe meningitis and its pathogenesis.

(iii) What is subcutaneous mycosis? Write a brief note on Blastomycosis.

(iv) Give a brief account on Amoebiasis.

(v) Write short note on classification of pathogenic viruses.

(vi) Classify respiratory tract infections and describe lower respiratory tract infections.

(vii) Write short note on candidiasis.

SECTION-D

(Essay Type Questions)

Note : Attempt **any three** questions. Each question carries **10** marks.(More that **500** words) [3x10=30]

4. (i) Describe normal flora of humans and its importance.

(ii) Name the UTI causing bacteria and describe the pathogenesis and laboratory diagnosis of *E.coli*.

(iii) Explain systemic mycosis with special reference to Blastomycosis.

(iv) What is virul hepatitis? Describe it in detail.

(v) Write a detailed account on parasitic infections.

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