

**PAPER CODE: MB2019116****KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES****WARANGAL, TELANGANA STATE - 506002****MBBS SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS****AUGUST, 2023****MICROBIOLOGY (NEW REGULATION) PAPER-II****Time: 3 Hours****Max Marks: 100****Note: Answer all questions.****Give Diagrammatic representation wherever necessary.**

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**Write Essay on the following:****2 X15 =30**

1. Classify Dermatophytes. Briefly discuss the laboratory diagnosis of Dermatophyte Infections. Write a note on Id reaction. (4+7+4)
2. A 40-year-old male presented with history of low-grade fever, loss of appetite, chronic cough with expectoration for 2 months duration. Two sputum samples was sent for acid fast staining and PCR - GeneXpert.
  - a. What is the most probable clinical diagnosis and aetiological agent?
  - b. Describe the pathogenesis of this condition.
  - c. Write the laboratory diagnosis in detail.
  - d. Write a note on drug resistance of the above aetiological agent?(3+4+5+3)

**Write a short note on the following:****8X5=40**

3. Define the antigenic variations of Influenza virus. Describe the mechanism and impact of antigenic variations of Influenza virus.
4. Discuss mode of transmission, pathogenesis, clinical features and laboratory diagnosis of Aspergillosis.
5. Describe infection control measures to prevent transmission of COVID-19 Diseases.
6. Enumerate the agents causing Non Gonococcal Urethritis. Write about the laboratory diagnosis of Non Gonococcal Urethritis.

7. Describe the pathogenesis and types of vaccines available for human use and post exposure prophylaxis of Rabies.
8. List the agents causing Pneumonia. Describe the laboratory diagnosis of Hemophilus Influenza Infection.
9. Describe the life cycle and laboratory diagnosis of Falciparum Malaria.
10. List viral agents causing Meningoencephalitis. Describe the pathogenesis and laboratory diagnosis of Herpes Simplex Virus.

**Write briefly on the following:**

**10 X 3=30**

11. Name three device associated infections.
12. Name three organisms causing congenital malformations of Fetus.
13. Name three zoonotic diseases and their source.
14. Name three sexually transmitted diseases and agents causing them.
15. Name three parasites infecting Central Nervous System.
16. Name three Oncogenic Viruses.
17. Write about Hand Hygiene.
18. Name three agents that can be used for Bio Terrorism.
19. Name three agents causing Urinary Tract Infection.
20. Name three parasites causing Respiratory Tract Infections.

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