2019 Scheme

Q.P. Code: 216001 **Reg. no.: .....**

Second Professional MBBS Degree Supplementary Examinations
July 2023
Microbiology - Paper II

Time: 3 Hours **Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Long Essays **(2x15=30)**

1. A 42-year-old female presented to the OPD with complaints of urinary frequency and urgency and pain in the lower abdomen. One month back she was treated for the same complaint. The Urine culture showed significant growth of lactose fermenting colonies which were Gram negative bacilli.
    a) What is most probable clinical diagnosis.
    b) What are the various methods of collection of urine for culture.
    c) Name the causative agents of this condition.
    d) What is significant bacteriuria.
    e) Describe the laboratory diagnosis of this condition.
    f) Write four antibiotics used to treat the condition.
    g) Write the measures used to prevent the infection in catheterized patients
    (1+3+2+2+3+2+2)
2. A 45-year-old smoker comes to outpatient department with history of productive cough, evening rise of temperature and loss of weight. Microscopic examination of the sample revealed acid fast bacilli.
    a) What is the most probable clinical diagnosis.
    b) Name the causative agent.
    c) Write the mode of transmission of the infective agent.
    d) Discuss the pathogenesis of the disease.
    e) Describe in detail the laboratory diagnosis of the condition.
    f) Discuss the drug resistance seen in this organism and the treatment of the resistant forms.
    g) Name the national programme for this condition. (1+1+1+2+5+4+1)

Short essays **(5x8=40)**

3. Describe the aetiology, clinical features and laboratory diagnosis of Dermatophytosis.
4. Discuss the pathogenesis, antemortem lab diagnosis and post exposure prophylaxis of Rabies.
5. Describe the pathogenesis, clinical features and laboratory diagnosis of Toxoplasmosis.
6. Classify Herpes viruses. Discuss the clinical features and laboratory diagnosis of Epstein Barr virus infection.
7. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Polio myelitis.

(PTO)

Short answers **(5x4=20)**

8. Cysticercus cellulosae
9. Differentiate between antigenic shift and antigenic drift
10. Standard tests for Syphilis.
11. Prions.
12. MMR vaccine.

Objective type questions **(10x1=10)**

13. Name two bacterial zoonotic diseases.
14. Name two fungi that cause subcutaneous mycosis.
15. Write the mode of transmission of Japanese encephalitis.
16. Satellitism.
17. Write two identifying features of Cryptococcus neoformans.
18. Name two causative agents of keratomycosis.
19. A CSF sample was received in microbiology lab for culture. The label in the specimen container was not matching with the specimen referral form. How will you manage the situation.
20. List four causes of nongonococcal urethritis.
21. Name one free living amoebae and the infection caused by it.
22. Name an antiviral drug used for the treatment of influenza.

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