SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

(A Deemed to be University)

MBBS Phase II Examination December 2024

Time: 180 Minutes Max Marks: 80 Marks

Microbiology Paper I QP CODE: C2051

Your answer should be specific to the question asked Draw neat labelled diagrams wherever necessary

Long Essay

 $10 \times 2 = 20 Marks$

- 1. A 10-year-old boy complains of pain in the major joints. On examination, he had skin rash and a cardiac murmur. He also gives history of sore throat in the past 2 weeks duration.
- a) What is your diagnosis?
- b) Name the causative agent responsible for this condition
- c) Describe the pathogenesis of the above condition
- d) Enumerate the laboratory diagnostic methods
- e) how do you prevent this infection?

(1+1+4+2+2)

- 2. A foreigner came to India as a tourist. He complains of vomiting and diarrhoea.
 - a. What is the clinical diagnosis?
 - b. Enumerate the agents causing the above clinical condition
 - c. Describe the pathogenesis and laboratory diagnosis. (1+2+4+3)

Short Essay $5 \times 12 = 60 \text{ Marks}$

- 3. Describe the principle and applications of Autoclave (3+2)
- 4. Describe the Structure, properties and functions of IgM (2+1+2)
- 5. Describe the Biological effects of complement (5)
- 6. Describe the types and applications of ELISA (2.5+2.5)
- 7. Describe the pathogenesis and complications of Falciparum malaria. (3+2)
- 8. Describe the morphology, modes of transmission of Human Immunodeficiency Virus (HIV). (2+3)
- 9. Describe the pathogenesis, clinical features and treatment of Shigellosis (2+2+1)
- 10. Describe the virulence factors and diseases caused by Helicobacter pylori. (3+2)
- 11. Describe the pathogenesis and prophylaxis of Measles (2+3)
- 12. Describe the pathogenesis, clinical manifestations of Toxic shock syndrome. (3+2)
- 13. Describe the sources, clinical lesions and laboratory diagnosis of Dermatophytes. (1+2+2)
- 14. Discuss the strategies to improve the Health care delivery.

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Long Essay

 $10 \times 2 = 20 Marks$

- 1. A seven-year-old unvaccinated boy presents with history of fever, sore throat and difficulty in swallowing food. On examination, a white membrane is seen over the tonsils, which bleeds on removal.
- a) What are your differential diagnosis?
- b) What is the most likely causative agent?
- c) Describe the pathogenesis of the above clinical condition
- d) Name the complications of the above disease
- e) Describe the laboratory diagnosis of the above clinical condition
- f) what is the prophylaxis of the disease?

(2+1+2+2+2+1)

- 2. 24-year-old woman presents for an antenatal check-up at 20 weeks of gestation. On examination, she has a maculopapular rash on the trunk, extremities and the anogenital area. VDRL test is reactive in 1: 16.
- a) What is the provisional diagnosis?
- b) Which test can confirm the diagnosis?
- c) What are the modes of transmission of this disease?
- d) Describe the clinical stages of the above clinical condition.
- e) Describe the laboratory diagnosis of the above clinical condition. (1+2+1+2+4)

Short Essay $5 \times 12 = 60 \text{ Marks}$

- 3. Describe the laboratory diagnosis of Hemophilus influenzae meningitis
- 4. Describe the pathogenesis of Tubercular meningitis
- 5. List the differences between live and killed poliomyelitis vaccines
- 6. Describe the laboratory diagnosis and prophylaxis of Influenza (2+3)
- 7. Describe the clinical features and laboratory diagnosis of Paragonimiasis. (2+3).
- 8. Mention any 4 sites of Extra pulmonary tuberculosis and their laboratory diagnosis. (2+3)
- 9. Describe the clinical manifestations and laboratory diagnosis of Lymphogranuloma venereum. (3+2)
- 10. Describe the clinical features and laboratory diagnosis of Brucellosis (2+3)
- 11. Describe the post exposure prophylaxis in rabies (5)
- 12. Describe the clinical manifestations and laboratory diagnosis of Cryptococcosis (2+3)
- 13. Describe the clinical manifestations and complications of SARS COV 2 infection (3+2)
- 14. Describe the predisposing factors and preventive measures for Surgical site infection (2+3)