

Sri Devaraj Urs Academy of Higher Education and Research

(Deemed to be University under section 3 of UGC Act)

Date : 17-02-2022

MBBS PHASE - II EXAMINATION FEBRUARY 2022

MICROBIOLOGY PAPER - I

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

Time : 180 Minutes

Max Marks : 80 Marks

Long Essay

10 × 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 these infection?

(1+1+4+2+2)

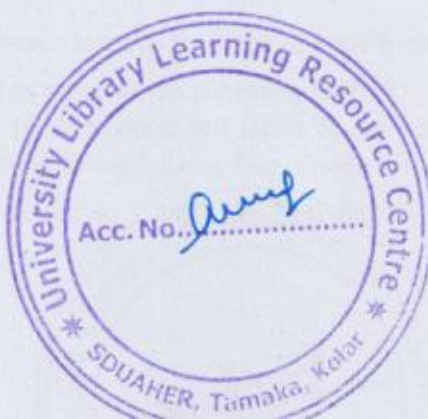
2. Enumerate 6 Clostridial species of medical importance. Describe the pathogenesis and prophylaxis of tetanus

(3+4+3).

Short Essay

5 × 12 = 60 Marks

3. Describe the structure, types and demonstration methods of Bacterial spores. (2+2+1)
4. Describe the mode of production and uses of Monoclonal antibodies. (3+2)
5. Describe the Classical pathway of complement activation
6. Explain the mechanism and applications of Agglutination reactions. (2+3)
7. Describe the mechanism of Type IV hypersensitivity reaction with examples. (3+2)
8. Describe the pathogenesis of Parvovirus B19
9. Describe the pathogenesis of Amoebic liver abscess
10. Describe the virulence factors and diseases caused by Helicobacter pylori. (3+2)
11. What is the mode of transmission, clinical features, and laboratory diagnosis of Hepatitis E virus.
12. Describe the clinical manifestations and laboratory diagnosis of round worm infection. (3+2)
13. Describe the pathogenesis and laboratory diagnosis of Actinomycotic mycetoma. (2+3)
14. Discuss the strategies to improve the health care delivery



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MICROBIOLOGY PAPER - II

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

Time : 180 Minutes

Max Marks : 80 Marks

Long Essay

10 × 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. Describe the morphology, pathogenesis and the laboratory diagnosis of SARS-CoV 2 infection . (2+2+3+3)

Short Essay

5 × 12 = 60 Marks

3. Describe the pathogenesis of pneumococcal meningitis
4. Mention the laboratory diagnosis of Cryptococcal meningitis
5. Describe the pathogenesis and laboratory diagnosis of Primary amoebic meningoencephalitis. (3+2)
6. Describe the pathogenesis and complications of Mumps (3+2)
7. Describe laboratory diagnosis of Gonorrhoea.
8. Enumerate the 3 causative agents of Vaginal discharge . Draw a neat labelled diagram of Trichomonas vaginalis. (3+2)
9. Enumerate the 3 causative agents of Pelvic inflammatory disease . Describe the laboratory diagnosis of Bacterial Vaginosis. (3+2)
10. Describe the post exposure prophylaxis in rabies
11. Classify the agents of bioterrorism with examples
12. Describe the predisposing factors and preventive measures for Catheter associated urinary tract infection (2+3)
13. Enumerate the moments of hand hygiene. Describe the steps of hand hygiene . (2+3)
14. A patient with influenza like illness has come to the screening OPD. He had exposure to a confirmed case of COVID 19 FIVE days back. He is anxious and wants to get tested and treated. However, he does not want to be quarantined or discriminated due to fear of social stigma.
Describe the Socio cultural issues related to Covid 19. Describe the preventive measures to be followed to prevent the spread. (2+3)

