

**Q.P.CODE: M1028031****Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - JANUARY, 2024****SECOND M.B.B.S. EXAMINATION****MICROBIOLOGY PAPER-II (Theory Questions)****Time: 2 Hour 40 Minutes****Max Marks: 80****Note: Answer all questions.****Draw a neat diagram wherever necessary**

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**SECTION-II (THEORY QUESTIONS – 80 MARKS)****WRITE ESSAY ON THE FOLLOWING:****2 X15 = 30**

1. A 6 years old boy brought to the ENT OPD with a history of fever and sore throat for past 2 days. His throat examination revealed pus on inflamed tonsils. Throat swab showed Gram positive cocci in chains along with pus cells. Culture on blood agar showed beta haemolytic pinpoint colonies.

- What is your provisional diagnosis
- What is the pathogenesis of the above disease
- Discuss laboratory investigations
- Write a note on treatment

2. A young sexually active male of 25 years presented with a single, painless and indurated ulcer on shaft of the penis with a duration of 2 weeks. He gives a history of promiscuous behavior. His serum was positive for reagin antibody.

- What is the provisional diagnosis
  - What is the pathogen responsible
  - Discuss laboratory investigations to confirm the diagnosis
  - Discuss pathogenesis and differential diagnosis
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e. Write a note on treatment and prevention

**WRITE SHORT NOTES ON THE FOLLOWING:**

**10x5=50**

3. Cryptococcal meningitis

4. Toxoplasma encephalitis

5. Tetanus prevention

6. A 7 year old was brought to the OPD with bilateral swelling of the face, local pain and tenderness. Severe pain on salivation.

a. What could be the clinical condition

b. What is the probable causative agent

c. What is the mode of infection

d. Complications of the condition

e. Mention the vaccine available for this virus

(1+1+1+1+1)

8. Pneumocystis pneumonia

9. Laboratory diagnosis of urinary tract infection

10. Oncogenic viruses

11. Zygomycosis

12. Tularaemia

13. In the midnight the micro laboratory receives sputum and CSF specimens from a patient for culture. The technician already processing a huge load of investigations, therefore he informed the clinical team that these specimens can only be processed on the next day. Discuss briefly on Respect for patient sample.

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