

**Q.P. CODE: M1028031****Dr. NTR UNIVERSITY OF HEALTH SCIENCES, AP, VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION: JANUARY, 2025****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. Classify Cestodes. Describe the life cycle, pathogenesis and the laboratory diagnosis of Echinococcus granulosus
2. A 45 years old female has attended the Gynecology op with c/o Mucopurulent vaginal discharge for the past one week. Gram's staining of cervical swab shows kidney shaped Gram negative cocci.
  - a) Which organism causes the above symptoms
  - b) List out the other possible organism that cause Sexually Transmitted Infection.
  - c) Explain the pathogenesis and clinical feature of the organism
  - d) What are the diagnostic methods and management

**WRITE SHORT NOTES ON THE FOLLOWING:****10x5=50**

3. Primary amoebic encephalitis
4. Lab diagnosis of bacterial meningitis
5. Atypical pneumonia

6. Paragonimiasis

7. A 62 year old debilitated man presented with symptoms of severe upper respiratory tract infection had a history of exposure to a patient having similar condition. Nasopharyngeal swab collected was sent to the reference laboratory for real time PCR, which revealed that causative agent as influenza A/ H1N1.

a. Draw a neat diagram of morphology of this virus

b. Describe the lab diagnosis of the above mentioned virus

8. Difference between oral polio vaccines and inactivated polio vaccines

9. Legionnaires disease

10. Rapid plasma reagin (RPR) test

11. Clinical types of human plague

12. Pulmonary anthrax

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