

March 2009

[KU 118]

Sub. Code: 2015

M.D. DEGREE EXAMINATION

Branch IV – MICROBIOLOGY
(Common to all candidates)

Paper II – SYSTEMATIC BACTERIOLOGY

Q.P. Code : 202015

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 20 = 40)

1. Discuss bacterial genital ulcerative diseases in detail.
2. Enumerate the causative agents of meningitis. Discuss the problem of T.B meningitis in India with special emphasis on newer diagnostic methods.

II. Write short notes on :

(10 x 6 = 60)

1. Melioidosis.
2. Anaerobic myositis.
3. *Listeria monocytogenes*.
4. Vancomycin resistant entero cocci.
5. Inclusion conjunctivitis.
6. Vectorborne bacterial disease.
7. *Francisella tularensis*.
8. Nonvenereal treponemes.
9. *Helicobacter pylori* infection.
10. Serodiagnosis of brucella.

September 2009

[KV 118]

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Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 x 20 = 40)

1. List the bacterial causes of sexually transmitted diseases. Write in detail the antigenic structure, antigenic heterogeneity and laboratory diagnosis of gonococcal urethritis.
2. Write in detail the morphology, cultural characteristics, pathogenesis and laboratory diagnosis of Helicobacter pylori infection.

II. Write short notes on : (10 x 6 = 60)

1. Shiga toxin
2. Halophilic vibrios
3. Melioidosis
4. Nontyphoid salmonellosis
5. MRSA
6. Streptolysin-o
7. Antibiotic associated diarrhea
8. Spirillum minor
9. Bartonella bacilliformis
10. Cell-wall deficient bacteria

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Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 x 20 = 40)

1. Discuss the pathogenecity and laboratory diagnosis of Clostridium tetani. Describe the vaccines used against tetanus.
2. Discuss the taxonomy of coagulase negative staphylococci. Describe their role in Nosocomial infections.

II. Write short notes on : (10 x 6 = 60)

1. Animal models for cholera.
2. Trachoma – inclusion conjunctivitis agents.
3. Coagglutination.
4. Newer mycobacterial vaccines.
5. Halophilic vibrios.
6. Bacillus anthracis.
7. Nocardia.
8. Vancomycin resistant enterococci.
9. Nonsporing anaerobes.
10. Laboratory diagnosis of leptospira.
