**[KM 119]** **Sub. Code : 2016**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — Microbiology

Paper II — SYSTEMIC BACTERIOLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Classify the aetiological agents causing pyogenic meningitis and briefly describe the laboratory diagnosis, treatment and prophylaxis.

(2) Classify Mycobacteria. Describe the laboratory diagnosis, treatment and prophylaxis of pulmonary tuberculosis.

II. Write short notes on : (10 × 5 = 50)

(a) Staphylococcal toxins.

(b) Anaerobic myositis.

(c) Melidiosis.

(d) Helicobacter pylori.

(e) Nonvenereal Treponematoses.

(f) E coli diarrhoea.

(g) Mycoplasmas of humans.

(h) Ehrlichia.

(i) Elek's Test.

(j) Blood culture.

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**[KO 119]** **Sub. Code : 2016**

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

Paper II — SYSTEMIC BACTERIOLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Discuss the laboratory isolation and classification of non spore forming anaerobes.

(2) Classify Vibrios. Discuss Laboratory diagnosis and investigation of an outbreak of cholera.

II. Write Short notes on : (10 × 5 = 50)

(a) Listeriosis.

(b) MRSA.

(c) Laboratory diagnosis of syphilis.

(d) Helicobacter pylori.

(e) Chlamydia trachomatis.

(f) Rat bite fever.

(g) Bacterial vaginosis.

(h) Pseudomonas aeruginosa.

(i) Diphtheroides as human pathogens.

(j) ESBL production in gram negative bacilli.

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**[KP 119]** **Sub. Code : 2016**

M.D. DEGREE EXAMINATION.

Branch IV – Microbiology

Paper II — SYSTEMATIC BACTERIOLOGY

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay :

I. Describe the pathogenesis of diseases produced by Clostridium perfringens. Add a note on its laboratory diagnosis and prophylaxis. (20)

II. (a) Describe the morphology, cultivation, pathogenesis and laboratory diagnosis of chlamydia trachomatis. (15)

(b) Describe the pathogenecity and laboratory diagnosis of leptospirosis. (15)

III. Write short notes : (6 × 5 = 30)

(a) Cogulase negative Staphylococci.

(b) Animal models for the cultivation of M. leprae.

(c) Kaufmann and White scheme of classification of Salmonella.

(d) Chigger – borne typhus.

(e) Laboratory diagnosis of M. Pneumoniae.

(f) Helicobacter pylori.

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**[KQ 116]** **Sub. Code : 2016**

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

SYSTEMATIC BACTERIOLOGY

Common to :

Paper II — (Old/New/Revised Regulations)

(Candidates admitted from 1988-89 onwards)

And

Paper II — (for Candidates admitted from 2004-2005 onwards)

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

M.C.Q. : Twenty minutes — M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Enumerate organisms causing Diarrhoea. Discuss etiopathogenesis of diarrhoea. (20)

(2) Discuss the pathogenesis, laboratory diagnosis and prevention of infection by helicobacter pylori. (15)

(3) Describe the morphology, cultivation, pathogenesis and laboratory diagnosis of chlamydia trachomatis. (15)

II. Write short notes: (6 × 5 = 30)

(a) Infections produced by non-sporing anaerobes

(b) Halophilic vibrios

(c) Zoonosis

(d) Blood culture

(e) Atypical mycobacteria

(f) Laboratory diagnosis of Neisseria meningitides.

**[KR 118]** **Sub. Code : 2015**

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

SYSTEMATIC BACTERIOLOGY

Common to :

Paper II — (Old/New/Revised Regulations)

(Candidates admitted upto 2003-04)

and

Paper II — (For candidates admitted from 2004-2005 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw diagrams wherever necessary.

I. Essay :

1. Enumerate the infective causes of prolonged fever. Discuss the microbiological investigations of septicemia including modern blood culture techniques and interpretation of blood culture results. Add a note on anaerobic septicemia. (5 + 12 + 3 = 20)

2. Describe the laboratory diagnosis of pyogenic meningitis. Briefly discuss the etiology and prevention of neonatal meningitis. (10 + 5 = 15)

3. Discuss the etiology pathogenesis and laboratory diagnosis of infective endocarditis. (15)

II. Write short notes on : (6 × 5 = 30)

(a) Toxic shock syndrome

(b) Antibiotic associated colitis.

(c) Salmonella food poisoning.

(d) Drug resistant gram positive infections.

(e) Non-conventional culture techniques for M. tuberculosis.

(f) Q fever.

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# MARCH 2008

**[KS 118]** **Sub. Code : 2015**

M.D. DEGREE EXAMINATION.

Branch IV — Microbiology

Paper II – SYSTEMATIC BACTERIOLOGY

(Common to all Candidates)

## Q.P.Code : 202015

Time : Three hours Maximum : 100 marks

Answer all questions.

Draw diagrams wherever necessary

I. Long Essay : $(2 \times 20 = 40)$

1. Discuss the Etiology and Pathogenesis of bacterial pneumonias. Describe specimen collection, Transport and specimen processing in the laboratory. (20)

2. Pathogenesis, Diagnostic and therapeutic strategies of gastrointestinal infections caused by Esch. Coli. (20)

II. Write Short notes on: $(10 \times 6 = 60)$

1. Non Cultivable Bacterial agents.
2. Extended Spectrum Beta Lactamases.
3. Lyme Disease.
4. Streptobacillus moniliformis.
5. Pathogenic Non Tuberculous Mycobacteria.
6. Bacillary Angiomatosis.
7. Melioidosis.
8. Clostridial Food poisoning.
9. Campylobacter species.
10. Specimen collection and Interpretation of Blood cultures.

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