

February 2009

[KU 1004X]

Sub. Code: 6217

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION

Second Year

Revised Non-Semester and

Third Semester Modified / New Modified Regulations

Paper IV – MICROBIOLOGY / PATHOLOGY

Q.P. Code : 746217

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams wherever necessary

Section A and B must be answered in SEPARATE Answer Book

SECTION – A (MICROBIOLOGY)

I. Essays:

1. Enumerate the organisms causing food poisoning. Write about the Pathogenesis and diagnosis of bacillary dysentery. **(15)**
2. What are Hospital Acquired infections. Write in detail about the various sources, organisms, treatment and prophylaxis of hospital acquired infections. **(10)**

II. Short Notes:

(3 x 5 = 15)

1. Active Immunity.
2. Serological markers of Hepatitis β infection.
3. Cell wall of Bacteria.

III. Short Answer:

(5 x 2 = 10)

1. Name portals of entry of bacteria.
2. Name the antibacterial agents acting on cell wall.
3. Morphology of leprosy causing bacteria.
4. Pathogenesis of polio-myelitis.
5. Classify disinfection with examples.

SECTION – B (PATHOLOGY)

IV. Essays:

1. Define anaemia. Write in detail about the etiology and peripheral smear findings in iron deficiency anaemia. **(15)**
2. Write in detail about the etiopathogenesis and morphology of rheumatoid arthritis. **(10)**

V. Short Notes:

(3 x 5 = 15)

1. Pathologic calcification.
2. Gangrene.
3. Metastasis.

VI. Short Answer:

(5 x 2 = 10)

1. Types of Emphysema.
2. 4 differences between benign and malignant tumors.
3. Four common sites of atherosclerosis.
4. Virchow triad.
5. Four chemical mediators of inflammation.

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SECTION – A (MICROBIOLOGY)

I. Essays:

1. Enumerate the organisms causing septic arthritis. Write about the virulence factors and lab diagnosis of staphylococcus Aureus. **(15)**
2. Write about common pathogenic bacteria causing urinary tract infection. Write about the treatment and prevention of them. **(10)**

II. Short Notes: (3 x 5 = 15)

1. Prophylaxis against poliomyelitis.
2. Lab diagnosis of tuberculosis.
3. Chemical disinfectants.

III. Short Answer: (5 x 2 = 10)

1. Types of polio viruses.
2. Laboratory tests for meningococcal meningitis.
3. Bacteria causing diarrhoeas.
4. Name the antiviral disinfectants.
5. Name four auto immune diseases.

SECTION – B (PATHOLOGY)

IV. Essays:

1. Discuss in detail about the types of shock, stages of shock and pathogenesis of septic shock. **(15)**
2. Write in detail about the wound healing by first intention. **(10)**

V. Short Notes: (3 x 5 = 15)

1. Vitamin D deficiency.
2. Renal stone.
3. Types of Osteomyelitis.

VI. Short Answer: (5 x 2 = 10)

1. Four types of Necrosis.
2. Types of Leprosy.
3. Viral carcinogen.
4. Name four auto immune diseases.
5. Pannus.

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Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams wherever necessary

Section A and B must be answered in SEPARATE Answer Book

SECTION – A (MICROBIOLOGY)

I. Essays:

1. Define sterilisation. Classify sterilisation methods. Write in detail about moist heat sterilisation. **(15)**
2. Classify microorganisms. Describe the various route of entry of micro organism. Write about the route of entry, causative organism and management of cholera. **(10)**

II. Short Notes:

(3 x 5 = 15)

1. Hospital acquired infections.
2. Lab diagnosis for malaria.
3. Superficial fungal infection.

III. Short Answer:

(5 x 2 = 10)

1. Draw a diagram of bacteria and name its parts.
2. Prophylaxis and treatment for rabies.
3. Mention four viruses causing hepatitis.
4. Name four parasitic infections.
5. Name four infections caused by candida albicans.

SECTION – B (PATHOLOGY)

IV. Essays:

1. Define Neoplasm. Classify and describe the differences between benign and malignant tumours. **(15)**
2. Define Anaemia. Write about the classification, investigation and management of anaemia. **(10)**

V. Short Notes:

(3 x 5 = 15)

1. Vitamin A deficiency.
2. Osteoarthritis of shoulder joint.
3. Foot protection in leprosy.

VI. Short Answer:

(5 x 2 = 10)

1. Clotting factors.
2. Fat soluble vitamins.
3. Heart sound.
4. Name two exercises in respiratory system.
5. Define rheumatoid arthritis.

August 2010

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MICROBIOLOGY / PATHOLOGY**

Q.P. Code : 746217

Time : Three hours

Maximum : 100 marks

ANSWER ALL QUESTIONS

Section A and B must be answered in SEPARATE Answer Book

Draw suitable diagrams wherever necessary

SECTION – A

(MICROBIOLOGY)

I. Essays:

1. Classify Antibacterial agents. Write about their uses. (15)
2. Enumerate the various organisms causing Sexually Transmitted Diseases. Discuss the laboratory diagnosis of Syphilis. (10)

II. Short Notes:

(3X5=15)

1. Respiratory tract infection.
2. Causes of Wound infection.
3. Urinary tract infection.

III. Short Answers:

(5X2=10)

1. Causes of Enteric infection.
2. Sterilization – Definition.
3. Classify Bacteria on the basis of Shape.
4. Mention four common type of Hospital infection.
5. Antiseptics.

**SECTION – B
(PATHOLOGY)**

IV. Essays:

1. Define Inflammation. Describe in detail – Vascular changes associated with Inflammation. (15)
2. Discuss about the types and Pathological changes of Gouty Arthritis. (10)

V. Short Notes:

(3X5=15)

1. Rheumatic Heart Disease.
2. Gangrene.
3. Fat Embolism.

III. Short Answers:

(5X2=10)

1. Etiology of Bronchiectasis.
2. Four sites affected by Psoriasis.
3. Haematuria.
4. Poliomyelitis.
5. Iron deficiency Anaemia.
