

Feb./Mar
2004

2

2370

B.P.T. IInd Professional, Examination, 2003
Pathology & Microbiology

Max. Marks. : 75 (A+B)

e : 3 Hours
e : Attempt all questions.

Part "A"

Write down the toxins and virulence factor of staphylococcus aureus. Discuss the clinical infections caused by staphylococcus.

Write short notes on :-

- (a) Autoclave
- (b) IgM Antibody
- (c) Methods of transmission of disease
- (d) Laboratory diagnosis of mycobacterium tuberculosis.

Tabulate the difference Between :-

- (a) Exotoxin and Endotoxin
- (b) Cell Wall of gram positive bacteria and gram negative bacteria.
- (c) Amoebic and Bacillary dysentery.

Part "B"

Define acute inflammation. Write in detail about chemical mediators of inflammation.

Write in short about-

- (a) Osteosarcoma
- (b) Differences between muscular dystrophies

Discuss in brief about-

- (a) Meningioma
- (b) Different types of necrosis

Write short notes on :-

- (a) Renal oedema
- (b) Types of hepatitis
- (c) Fatty liver.

1 (2003)

5

B.P.T. IInd Year Re-Examination, 2003
PHARMACOLOGY AND BIOCHEMISTRY

Max Marks 75(A+B)

Three Hour

Attempt all questions. All questions carry equal marks.

PART - A

Draw a flow diagram showing reaction of T.C.A. cycle ? Discuss it's importance

- (i) What is urea ? Describe the synthesis of urea in the body.
- (ii) Describe the fate of amino acids.

Write short notes on :

- (i) Phenylketonuria.
- (ii) Mucopoly-saccharides.
- (iii) Ca^{2+} metabolism.
- (iv) Zwitter Ions.
- (v) t. R.N.A.

PART - B

skeletal muscle relaxants. Discuss mechanism of action, adverse effects and therapeutic uses of

D-Tubocurarine.

Explain in brief :

- (i) Mechanism of action of NSAIDs.
- (ii) Plasma protein binding of drug.
- (iii) Drug Tolerance.

Write short notes on :

- (i) Oral hypoglycemic drugs.
- (ii) Protein pump inhibitors.
- (iii) Vitamin C.

37.5

(H)

2 (2003)

2372

BPT IInd Prof. Examination, 2003
CLINICAL ORTHOPEDICS

Max. Marks : 75

Three Hour

Attempt all questions. All questions carry equal marks.

PART - A

- ✓ Discuss causes, pathophysiology of backache and its management.
- ✓ Define fracture, dislocation and subluxation. Discuss in brief about classification of fracture, its healing, basic principles in management of fracture and its complications.
- ✓ Write short notes on :
 - ✓ (i) Rickets
 - ✓ (ii) Colle's Fracture
 - ✓ (iii) Rheumatoid Arthritis.

PART - B

- ✓ Discuss etiopathogenesis of poliomyelitis and its management.
- ✓ Discuss indications of amputation and describe physiotherapy management of an amputee.
- ✓ Write short notes on :
 - ✓ (i) C.T.E.V
 - ✓ (ii) Spina Bifida
 - ✓ (iii) Spondylolisthesis.

3

3 (2003)

2373

B.P.T. IInd Professional, Examination, 2003

Paper-IV

Electrotherapy-I

Max. Marks. : 75 (A+B)

Time : 3 Hours

Instruction : Attempt all questions. All questions carry equal marks.

Part "A"

What do you understand by short wave diathermy ? Explain in detail the capacitor field method of S.W.D. application ?

Write ultra violet radiation ? Give an account of its physiological effects. How is psoriasis treated by U.V.R. ?

Sinusoidal current and dia dynamic add note on HVPGS ?

OR

Iontophoresis, Principle, Therapeutic uses and contra indication ?

Short notes :

(a) Biofeed back ,

(b) Therapeutic uses of IR rays

Part "B"

What are the physiological effects of ice therapy. Does it have any beneficial effect in treating spasticity ?

Explain the production and technique of application of M.W.D. Give an account of its physiological effects ?

Write preparation of laser machine patient and therapist ?

Write physical characteristics and physiological effects of paraffin wax ?

OR

Differentiate the low frequency medium, high frequency currents.?

(7)

4 (2003)

2374

B.P.T. IInd Prof. Examination, 2003
Therapeutics

Max. Marks : 37.5+37.5

Time : 3 Hours

Note : Attempt all questions. All questions carry equal marks.

PART A

Define and classify the principles and the effects and uses of Active Movements.

Define Gait Cycle. Describe the Parameters of Gait and phases of Gait Cycle.

Define and classify lever with examples from the Human Body.

Define Suspension Therapy. Explain its types and uses.

PART B

Write definition classification and physiological effect of the passive movement.

2. Write about axes and planes of movement in detail with suitable diagram.

3. Define resisted movement ? Write in detail about Delorms and Oxford techniques of giving PRE.



5 (2003)

1804
BPT Part II Examination, 2003
Pathology & Microbiology

Time: 3 Hours

Marks : 75

Attempt all questions

Part : 'A'

Define Necrosis. Write in detail about different types of Necrosis.

7.5

Write short notes on :-

5 x 3

- (a) Nephrotic syndrome
- (b) Chronic Granulomatous Disease
- (c) Giant cell tumour of Bone

Write in brief about :-

5 x 3

- (a) Astrocytoma
- (b) Q/JC spleen
- (c) Lewis Response

Part : 'B'

Write a note on clinical infections and virulence factors of staphylococcus.

7.5

Write in brief about :-

5 x 3

- (a) Sterilization by moist heat
- (b) Complement fixation test
- (c) Differentiation between endotoxin and exotoxin

Write short notes :-

5 x 3

- (a) Structure of Antibody
- (b) Lab diagnosis of enteric fever
- (c) Gram negative cell wall

1 (2003) Sx

1805
BPT Part II Examination, 2003
Pharmacology and Biochemistry

Time : 3 Hours

Marks : 75

Note: Attempt all questions and illustrate your answers with suitable diagrams.

Part : 'A'

Discuss various routes of drug administration giving suitable examples. 10.5

Explain briefly - 15

(a) Idiosyncratic reactions ✓

(b) Phase I reaction of drug metabolism ✓

(c) Drug Tolerance ✓

Write short notes on :-

12

(a) Aspirin ✓

(b) d. Tubocurarine ✓

(c) Corticosteroids ✓

Part : 'B'

Discuss the oxidation of a single molecule of Glucose upto CO_2 and H_2O . 13

(a) Give a comprehensive review of Diabetes mellitus. 6

(b) How ketone bodies are produced? Write a note on ketonemia and identification of ketones in urine. 6.5

Write short notes on each of the following :-

(i) Mucopolysaccharides ✓

(ii) Phospholipids ✓

(iii) Vitamin 'C' ✓

1807
BPT Part II Examination, 2003
Therapeutics

Note: Attempt all questions.

Time: 3 Hours

Marks: 75

Part: 'A'

Classify the various types of movements used in exercise therapy? Explain with example the various techniques for increasing strength and endurance of lower limb muscles? 12.5

Explain in detail the procedure for evaluating the range of motion of joints? Explain the technique for various movements of the hip joint? 12.5

Define suspension therapy? Explain the various components of the suspension unit and the methods of suspension? 12.5

Part: 'B'

Define levers? Classify it. Explain in detail the three order with an example from human body. 12.5

Explain in detail the factors maintaining co-ordination and the principles and method of giving Frenkel's exercise. 12.5

Write short notes on :-

- a) Principles of hydrotherapy 6
- b) Effects of passive movements 6.5

3 (2003) S

1886

B.P.T. IInd Professional Examination, 2003

Pathology & Microbiology

Time Three Hours

Max. Marks. 75 (A + B)

Note : Attempts all questions.

Part "A"

Write in brief about the clinical features of tuberculosis and discuss in detail about laboratory diagnosis of tuberculosis

12

Discuss in brief about :-

9 X 2

(a) Methods of sterilization by moist heat

(b) Name various types of antibodies and write in detail about IgM.

Write short notes on :-

3 X 2.5

(a) ELISA

(b) Difference between amoebic and bacillary dysentery

(c) Typhoid fever

Part "B"

Describe cellular events and biochemical changes in apoptosis. How does apoptosis differ from necrosis.

12

Discuss pathogenesis of granuloma formation. Enumerate various granulomatous disease.

12

Write in short about :-

3 x 4.5

(a) Chemotaxis

(b) Thrombophlebitis

(c) Osteogenic sarcoma

1 (2003) 52

✓ 1890

BPT. 2nd Prof. Examination (2003).

Clinical Orthopedics ✓

Time- 3 Hours

MM- 75

Part A

1. Classify joint diseases. Write in detail about pathogenesis, clinical features and management of rheumatoid arthritis. (12)

2. How will you approach to a case of back ache and its management accordingly. (12)

3. Write short notes on: (4.5X3)

- a) Poliomyelitis ✓
- b) Flat foot
- c) Genu valgum ✓

Part B

Discuss an approach to a case of nerve injury. Describe the course of sciatic nerve and write in brief about foot drop. (12)

✓ Classify injuries around ankle and write the biomechanics and its management. (12)

Write short notes on: (4.5X3)

- a) Scoliosis
- b) Myositis ossificans
- c) Osteomyelitis

3 (2003) 16 S2

2035

B.P.T. IInd Year Supplimentary Examination, 2003
Pharmacology and Biochemistry

Time: Three Hours

Max. Marks: 37.5+37.5=75(A+B)

Instruction: Attempt all questions.

SECTION-A

Explain water soluble Vitamins.

Write short notes:

- (a) Distribution and Redistribution of drugs ✓
- (b) Local routes of administration of drugs ✓
- (c) Tachy Phylaxis ✓
- (d) Idiosyncrasy ✓

Attempt any three short notes:

- (a) Lead poisoning ✓
- (b) Immunisation Schedule ✓
- (c) Therapeutic uses of Vitamin D ✓
- (d) Drug Antagonism ✓

SECTION-B

Write down about:

- (a) TCA Cycle ✓
- (b) Biosynthesis of cholesterol and hypochotesterolaemic drugs ✓

Write short notes on :

- (a) Glucosurias ✓
- (b) Classification of enzymes ✓
- (c) Role of proteins in "nutrition" ✓

Describe briefly :

- (a) Mitochondria ✓
- (b) ELISA ✓
- (c) Monosaccharides ✓
- (d) Metabolism ✓
- (e) Biochemistry of connective tissue. ✓

2043

B.P.T. IInd Professional Examination, 2003

Paper-IV

Electrotherapy-I

Time: Three Hours

Max. Marks: 37.5+37.5=75(A+B)

Instruction: Attempt all questions.

SECTION-A

Discuss the production, method of application physiological effects, indications and contraindications of short wave diathermy?

Attempt any four:

- 1) Define Radism under pressure and the method of management of upper limb edema?
 - 2) SD curve?
 - 3) Method of application of interferential therapy?
 - 4) Physiological effects, indications and contraindications of ultraviolet?
 - 5) Production of ultrasound?
- Attempt any three?
- Indications of Laser?
 - (b) Surged Faradic current?
 - Contrast Bath?
 - (d) Contraindications of Wax therapy?

SECTION-B

Differentiate between infra-red and ultra-violet rays. Explain physiological effects, indications and contra-indications of ultraviolet rays.

Short notes any four:

- (a) Indication of cold Therapy
 - (b) Contra-indication of contrast bath.
 - (c) Electromyography
 - (d) Indications of Paraffin wax Bath
 - (e) Physiological effects of heat therapy
- What is the difference between short wave and long wave Diathermy?
- Explain physiological effects, indications and contra-indications of SWD.
- (a) Difference between high frequency and low frequency currents.
 - (b) Indications and Contra-indications of I.F.T.
 - (c) Therapeutic indications of Laser
 - (d) Contra-indications of Ultrasonic Therapy.

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Time: Three Hours

Max. Marks: 37.5+37.5=75(A+B)

Note: Attempt all questions.

SECTION-A

Explain principles, techniques, progression and various types of Frenkel's exercises alongwith causations for Inco-Ordinated movement.

10

Short essay (write any four):

(a) Define suspension therapy ? Write its types and uses. 5

(b) Define gait cycle. Write about parameters of gait and phases of gait cycle alongwith four pathological gait. 5

(c) What is posture ? Write about postural mechanism and development of good posture ? 5

(d) What is Hydrotherapy ? What are Hydrodynamic principles ? 5

(e) Write detail about mechanics of Rib Cage ? 5

Short notes (any three):

(a) What is stretch reflex 2.5

(b) Measurement of Axillary Crutches when shoe on : 2.5

(c) Third order lever with example 2.5

(d) CPM Continuous Passive movement 2.5

SECTION-B

What are the types of muscle contraction, types of muscle work and group action of muscles. 12.5

Write about axes and planes of movement (Mechanics of movement) with diagram and explain in detail about the plane of movement and gravity. 12.5

Write definition, classification principles and effects and uses of relaxed passive movement. 12.5