

Oct, 0

3 Hours

Max. Marks: 80 (A+B)

Attempt all questions in part A and three questions in total in part B.

No. 1 in part B is compulsory. Draw labelled diagram wherever necessary.

PART - A

fine inflammation. Discuss in detail about the cellular events of acute inflammation. 3+7

Discuss in brief:

Fate of thrombus ✓

Factors affecting wound healing ✓

Meningioma ✗

Rickets. ✓

Differences between:

Dystrophic calcification and metastatic calcification ✓

Neurilemmoma and neuro fibroma. ✓

PART - B

(a) Describe the latest classification of bacteria based on 16 Sr RNA. 5

Discuss

(i) Heat (ii) Filtration, as methods of sterilization: 5+5

Write brief notes on the following:

Indicator organisms

Bacillary dysentery ✓

Tuberculosis ✓

Source of micro organisms in foods

(e) Nosocomial infections.

(f) Disinfectants and antiseptics.

(a) Describe different virulence factor which play role in pathogenesis of a micro organism. 6

(b) How inflammation and phagocytosis play role in innate immunity? 6

(a) Describe how immunity varies among species, races and individuals. 6

(b) Briefly write on:

(i) Vaccines

(ii) Anti toxins. 6

1 (2004)



Od,

Time : 3 Hours

Note : Attempt all questions.

Max. Marks : 75 (A+B)

Part A

Classify anti-Gout drugs. Discuss mechanism of action, adverse effects of Allopurinol. 4+4+2.5

Write short notes on :-

(a) Dimer caprol 4 x 3

(b) Corticosteroids

(c) Propranolol -

Discuss in brief :-

(a) Drug Synergism 5 x 3

(b) d- Tubocurarine

(c) Merits and demerits of Oral route

Part B

1. Write down in detail about Glycolysis giving schematic diagram, etc. 12

Or

Write down an essay about ' HUMAN NUTRITION ', its significance, etc.

2. Write about :-

(a) Monosaccharides 4 x 3

(b) Biochemical morphology of cell

(c) Importance of ' Biochemistry ' teaching to BPT students

3. Write about :-

(a) Biochemistry of muscles 4+4.5+4

(b) Insulin hormone

(c) Nucleic acids

2842

B.P.T. IInd Year Examination, 2004 (New Pattern)
Or Orthopaedics

Oct, 0

Time : 3 Hours

Max. Marks : 80

Note : Attempt all questions.

Part A

1. Discuss etiopathogenesis of Backache, its clinical features and management. 10
2. Discuss Etiopathogenesis of CTEV and its management. 10
3. Write short notes on any four :
 - (a) Colle's fracture. 5
 - (b) Carpel Tunnel Syndrome. 5
 - (c) Rickets. 5
 - (d) Myositis ossificans. 5
 - (e) Torticollis. 5
 - (f) Tennis Elbow. 5

Part B.

1. Describe Clinical features and conservative management of Lumbar Spondylosis. 15
2. Enumerate physical findings in Rheumatoid Arthritis. Discuss its management strategies. 10
3. Write short notes on any three : 5 x 3
 - (a) Tennis Elbow
 - (b) Painful heel syndrome
 - (c) Frozen shoulder
 - (d) Stiff hand.

3(2004)

2843
B.P.T. IInd Year Examination, 2004
Paper-IV
Electrotherapy- I

2/✓

Oct, 04

Answer
Attempt all questions.

Max. Marks : 75 (A+B)

Part A

Explain how Biofeedback works for the control of muscle activity and movement.

7 8

Write short notes on :-

- How does Laser Therapy work in the body (at cellular level)?
- Method of controlling dose of S.W.D.
- Difference between Faradic and galvanic current
- Faradic Foot bath

12

Write short notes on two :-

- Different effects of ultra-violet and infrared radiations
- Sensitizers
- Piezoelectric effects

6

Define interferential current and write contra indication of IFT.

7

Write the preparation of laser machine, patient and therapist.

7

Part B

Write in detail about low frequency currents, its physiological effects and indications. Write mechanical, electrical and magnetic effects of currents.

10

Or

What are the preparations needed to be done before application of electrotherapeutic modalities to the patient?

Write about production and physiological effects of MWD. Elaborate its differences with S.W.D.

10

Write short notes on any two of the following :-

- Techniques of assessing UVR dosage for individual patient and factors determining the doses
- Write in detail about plotting of S.D. Curve.
- Indications and contraindications of LASER.
- Write about types of TENS.

Write short notes on any three of the following :-

- Russian currents
- Mechanical effects of ultrasound
- Physiological effects of cold.
- Contrast bath
- Diodynamic currents

3 x 3

4(2004)

2844

B.P.T. IInd Year Examination, 2004

PHIOTHERAPEUTICS

Oct, 04

Time : Three Hours

Max. Marks : 80

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

PART - A

1. Briefly describe gait and gait parameters. 10
2. Briefly describe about levers, orders of lever with examples and diagrams. 10
3. Write short notes on : 5x4
 - (a) Hydrostatics and hydrodynamics principles used in hydrotherapy
 - (b) Mechanical principles of Continuous Passive Motion (CPM) and suspension apparatus
 - (c) Different types of pulleys used in physiotherapy
 - (d) Walking aids and crutch types.

PART - B

1. What is muscle strength ? What are the different ways of giving resisted exercises ? Describe the procedure of strengthening weak quadriceps muscle. 10
2. Describe the physiological effects of passive exercises. How will you increase the R.O.M. of a stiff elbow joint ? 12
3. Write short notes on : 6x3
 - (a) Crook lying position.
 - (b) 10 R.M.
 - (c) M.M.T. of Gluteus medius.

5(2004)

9 ✓

Oct, 04
(Suppl.)

2879
B.P.T. IInd Year Examination, 2004
Pathology and Microbiology

Time : 3 Hours

Max. Marks : 75

Part A

Note : Attempt all questions.

1. What is Necrosis ? Describe the causes of Necrosis. ✓ 2+8
2. Describe the difference between any three : 4x3
 - (a) Lytrophic and metastatic classification. ✓
 - (b) Active and Passive Immunity
 - (c) Classification of streptococcus
 - (d) Difference between T-cell and B-Cell lymphocyte
3. Write Short on any three : 15.5
 - (a) Salmonella Typhi
 - (b) Pathological changes in MI ✓
 - (c) Lesions caused by staphylococcus
 - (d) Draw a flow chart of malaria parasite life cycle. ✓

Part B

Note : Attempt any three questions in all. First question is compulsory.

1. (a) Give an account of contributions of Robert Koch to Microbiology. ✓ 3.5
(b) What do you know about : 4x2
 - (i) Bacterial endospore ✓
 - (ii) Flagella arrangement in bacteria. ✓
2. (a) Briefly describe modes of transmission of pathogens and their portals of entry. 6
(b) Write briefly on : 2x3
 - (i) Enteric fever ✓
 - (ii) Botulism
 - (iii) Staphylococcal food poisoning ✓
3. Write short notes on four of the following : 3x4
 - (a) Exo and Endotoxins. ✓
 - (b) Inflammation. ✓
 - (c) Phagocytosis ✓
 - (d) Structure of Ig G. ✓
 - (e) Complement fixation test. ✓
4. (a) Differentiate between active and passive immunity. ✓ 6
(b) Write notes on : 2x
 - (i) Sources of Micro organism in foods. ✓
 - (ii) ELISA. ✓
 - (iii) Passive agglutination. ✓

1 (2004) S

2880

B.P.T. IInd Year Examination, 2004
Pharmacology and Bio-chemistry

Oct, 04
(Suppl.)

Time: Three Hours

Max.marks: 75

Note: Attempt all questions.

PART-A

1. What is drug? Discuss merit and demerit of different routes of administration of drug. 10
2. Discuss in brief: 4.5x3
 - (a) Allergic reactions of drug
 - (b) Balanced diet
 - (c) Factors of protein quality
3. Write short notes on: 14
 - (a) Principle of drug action
 - (b) Competitive and non-competitive enzymes
 - (c) Transcription

PART-B

1. Write about: 6+6
 - (a) Nucleic acids
 - (b) Classification of Enzymes and their diagnostic importance
2. Write about: 4+4+4.5
 - (a) Insulin hormone
 - (b) Acid base balance
 - (c) Monosacharides and their properties
3. Describe briefly: 4+4+3+2
 - (a) Role of lipids in nutrition
 - (b) Glycogenolysis
 - (c) Cholesterol biosynthesis
 - (d) Mitochondria

2(2004)S