

QP Code:

Reg. No.:.....

SECOND YEAR BPT DEGREE EXAMINATIONS

(Model Question Paper -2012 Batch)

Electrotherapy

Time: 3hrs

Maximum marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays

(2x14=28)

1. Discuss in detail how an electrical pulse produces an action potential in a nerve. Add a note on the propagation of the action potential.
2. Explain the methods of heat production in the tissues with short wave diathermy application. Mention the physiological effects of short wave diathermy.

Short Essays

(4x8=32)

3. Methods of application of cryotherapy.
4. Indications and contraindications of wax therapy.
5. Physiological effects of LASER.
6. Define micro and macro electric shock. How will you prevent electric shock.

Short Answers

(10x4=40)

7. Define monophasic and biphasic wave.
8. Refractory period.
9. Define high voltage pulsed galvanic current.
10. Half value distance in ultrasound intensity.
11. Contraindications for whirl pool bath.
12. Cosine law of electromagnetic radiation.
13. Faradic- galvanic test.
14. Electrode tissue interface.
15. Indications and contraindications of Interferential therapy.
16. Iontophoresis for wound healing.

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SECOND YEAR BPT DEGREE EXAMINATIONS

(Model Question Paper -2012 Batch)

Exercise Therapy

Time: 3hrs

Maximum marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays

(2x14=28)

1. Define PNF. Explain in details about goals, neurophysiologic principles, techniques of PNF. Add a note on diagonal patterns of movement.
2. Define postural drainage. Explain detail about its indications and contraindications. Add a note on broncho-pulmonary segments.

Short Essays

(4x8=32)

3. Define pulmonary function test (PFT). List out the indications and parameters of PFT
4. Explain the different techniques of stretching, its effects, precautions and contraindications.
5. Define Lumbar lordosis, its mechanism and correction.
6. Pranayamas - classification, principles and techniques.

Short Answers

(10x4=40)

7. Medical research council (MRC) grading of muscle power.
8. Classification of walking aids
9. Closed chain exercises.
10. Plyometric exercises
11. Physiological effects of aerobic training.
12. Define balance. Explain the types of balance training.
13. Indications and effects of hydrotherapy.
14. Maitland grades of mobilization
15. Types of suspension therapy.
16. Describe contract relax and hold relax techniques.

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SECOND YEAR BPT DEGREE EXAMINATIONS

(Model Question Paper -2012 Batch)

Pharmacology

Time: 1½ hrs

Maximum marks: 50

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay

(14)

1. Explain in detail about the classification, source, routes of administration, and distribution of drugs. Add a note on metabolism and excretion of drugs.

Short Essays

(2x8=16)

2. Explain the effects of cholinergic and anti cholinergic drugs on autonomic nervous system.
3. Explain in detail about the drugs used in treatment of diabetes mellitus.

Short Answers

(5x4=40)

4. Calcium channel blockers.
5. Physiological uses of glucocorticoids and its adverse effects.
6. Antiepileptic drugs.
7. Peripheral muscle relaxants.
8. Monoamine oxidase inhibitors.

Reg. No.:.....

SECOND YEAR BPT DEGREE EXAMINATIONS
(Model Question Paper -2012 Batch)
Microbiology and Pathology

Time: 3hrs

Maximum marks: 100

- Answer all questions
- Draw diagrams wherever necessary
- Write Section A and Section B in separate answer books (32 Page). Do not mix-up questions from Section A and Section B

QP Code:

Section A: Microbiology

Marks: 50

Essay

(14)

1. Describe the morphology, modes of transmission and laboratory diagnosis of HIV. Add a note on universal precautions.

Short essays

(2x8=16)

2. Define pyrexia or fever of unknown origin. Discuss the laboratory diagnosis of typhoid fever.
3. Describe the morphology and laboratory diagnosis of staphylococcus.

Short answers

(5x4=20)

4. Blood culture.
5. Hot air oven.
6. Poliovirus.
7. Dermatophytes.
8. Prophylaxis against tetanus.

QP Code:

Section B: Pathology

Marks: 50

Essay

(14)

1. Define and classify necrosis. Explain in detail about coagulation necrosis.

Short essays

(2x8=16)

2. Define and classify anemia. Explain in detail iron deficiency anemia
3. Describe the process of wound healing and mention the factors affecting it.

Short answers

(5x4=20)

4. Diabetes Mellitus.
5. Fat embolism.
6. Chronic bronchitis.
7. Osteomyelitis.
8. C.S.F. analysis.
