SECOND YEAR BPT DEGREE EXAMINATIONS
(Model Question Paper)
Biomechanics

Time: 3 hrs   **Maximum marks: 100**

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

Essays   **(2x10=20)**

1. Explain in detail about shoulder complex and the mechanism of elevation of arm to abduction.

2. Describe the effects of disease injury and immobilization on joint structure and soft tissues

Short answers   **(10x5=50)**

3. Axis and planes of movement.

4. Flexion and extension of Hip

5. Gait Cycle

6. Classification of levers with suitable examples

7. Lumbo pelvic rhythm

8. Safe Lifting

9. Open and closed chain exercise.

10. Types of muscle action

11. Movements at Spine.

12. Explain very briefly about optimal posture

Short notes   **(10x3=30)**

13. Lumbosacral angle

14. Hip hiking

15. Locking and unlocking of knee joint

16. Equilibrium

17. Typical and a typical vertebrae

18. Cylindrical grip

19. Length tension relationship

20. Stress and strain curve

21. Force systems

22. Anatomical pulleys

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QP Code: Reg. No.:…………………………

SECOND YEAR BPT DEGREE EXAMINATIONS
(Model Question Paper)
Electro Therapy

Time: 3 hrs   **Maximum marks: 100**

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

Essays   **(2x10=20)**

1. Define short wave diathermy, various methods of application, electrode spacing, various positions for placing electrode.

2. Describe electrical stimulation. Explain therapeutic and physiological effect of electrical stimulation and its indications and contraindications.

Short answers   **(10x5=50)**

3. Define resistance, factors affecting resistance;

4. Explain therapeutic ultra sound.

5. Therapeutic LASER

6. Describe SD curve

7. Define IFT, physiological effect, indication and contra indication

8. Describe methods and benefits of wax bath.

9. Cryotherapy and its techniques of application.

10. Explain briefly shock, causes of shock and its precautions

11. Pain gate theory

12. Fluidotherapy

Short notes   **(10x3=30)**

13. Transmission of heat

14. Capacitors

15. Iontophoresis

16. Accommodation

17. Types of IRR

18. Coupling media

19. Contrast Bath

20. Faradism Under Pressure

21. Whirlpool bath

22. Biofeedback

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QP Code: Reg. No.:……………………….

SECOND YEAR BPT DEGREE EXAMINATIONS
(Model Question Paper)
Exercise Therapy

Time: 3 hrs   **Maximum marks: 100**

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

Essays   **(2x10=20)**

1. Define co-ordination. Exercise to improve co-ordination Explain the techniques of Frenkel's

2. Explain resisted exercise with principles, indications, contra indication and precaution

Short answers   **(10x5=50)**

3. Isokinetic exercise

4. Crutch walking

5. Rhythmic stabilization

6. Group exercise

7. Types of muscle contraction

8. Muscle testing

9. Posture

10. Relaxation

11. Hydrotherapy

12. Yoga

Short notes   **(10x3=30)**

13. Gravity

14. Levers

15. Equilibrium

16. Pulleys

17. Goniometer

18. Balance

19. Bell's palsy

20. Percussion

21. Breathing exercise

22. Active movement

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QP Code: Reg. No.:…………………………

SECOND YEAR BPT DEGREE EXAMINATIONS
(Model Question Paper)
Pharmacology

Time: 1½ hrs   **Maximum marks: 50**

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

Essay   **(10)**

1. Classify antihypertensive drugs with suitable example. Mention its pharmacological actions and uses.

Short answers   **(5x5=25)**

2. Glucocorticoids

3. Drugs used for the treatment for mood disorders.

4. Tricyclic antidepressants

5. Peripheral muscle relaxants

6. Mention different routes of administration of drugs

Short notes   **(5x3=15)**

7. Oral hypoglycemic drugs.

8. Drugs used for the treatment of IHD

9. Aspirin.

10. NSAID's

11. Dopamine

12. Digitalis

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SECOND YEAR BPT DEGREE EXAMINATIONS
(Model Question Paper)
Microbiology & Pathology

Time: 3 hrs   **Maximum marks: 100**

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

QP Code: Section A: Microbiology   Marks:50

Essay   **(10)**

1. Define urinary tract Infection? Enumerate the causative organisms and laboratory diagnosis of UTI.

Short answers   **(5x5=25)**

2. Laboratory diagnosis of myco bacterium tuberculosis
3. Autoclave
4. Virus
5. Staphylococcus
6. Disinfectants

Short notes   **(5x3=15)**

7. Dermatophytes
8. V D R L test
9. Cell mediated immunity
10. Gram's staining
11. Classification of bacteria

QP Code: Section B:Pathology   Marks:50

Essay   **(10)**

1. Classify diseases of musculoskeletal system. Describe Osteoarthritis.

Short answers   **(5x5=25)**

2. Hypersensitivity reactions.
3. Shock
4. Cholelithiasis
5. Diabetes Mellitus
6. Vascular lesions of CNS

Short notes   **(5x3=15)**

7. Wound healing.
8. Nephrotic syndrome
9. Occupational lung diseases
10. Gangrene
11. Malaria

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