FIRST YEAR BPT DEGREE EXAMINATIONS

Paper I Anatomy

(Model Question Paper -2016 Scheme)

- Answer all Questions
- Draw diagrams wherever necessary

Time 3 hrs   **Max Marks:100**

Essays   **(2×15=30)**

1. Describe the arches of foot under the following headings
   ■ types of arches   ■ supports of arches ■ applied anatomy (5+5+5=15)
2. Describe the formation of brachial plexus in detail. Mention its branches and add a note on its applied anatomy (6+4+5=15)

Short Essays   **(4× 10=40)**

3. Describe sulci, gyri and functional areas of superolateral surface of cerebrum
4. Describe the position, parts relations, blood supply and nerve supply of Lungs with emphasize on broncho pulmonary segments.
5. Write the name of all cranial nerves.
6. Describe the location, size, shape, features, blood supply, nerve supply and functions of the urinary bladder

Short Answers   **(10×3=30)**

7. Define pronation and supination.
8. Features of fallopian tube
9. Microscopic structure of thymus
10. Peculiar features of clavicle
11. Femoral sheath-compartments and contents
12. Features of a typical cervical vertebra
13. Explain the neurohypophysis part of pituitary gland
14. Course and branches of axillary nerve
15 .Structure of thin skin
16. Name the rotator cuff muscles

FIRST YEAR BPT DEGREE EXAMINATIONS

Paper III Biomechanics and Kinesiology

(Model Question Paper -2016 Scheme)

- Answer all Questions
- Draw diagrams wherever necessary

Time 3 hrs   **Max Marks:100**

Essays   **(2×15=30)**

1. Define gait. Discuss the phases of gait cycle and the sagittal plane analysis of gait

2. Define the structure and functions of glenohumeral joint in detail. Add a note on the integrated function of shoulder stabilization

Short Essays   **(4× 10=40)**

3. Explain Newton's laws of motion with example
4. Explain the biomechanical analysis of sitting posture
5. Explain the functional organization of the muscle according to the fibre types
6. Discuss in detail about precision and prehension of the hand

Short Answers   **(10×3=30)**

7. Carrying angle of the elbow joint
8. The arrangement and functions of the trabecular system of the femoral neck.
9. Gross structure of lumbar vertebrae
10. Mention the synergies governing posture
11. The second order lever system
12. The movements in temperomandibular joint
13. The functions of diaphgram
14. Mention the deviations in pes planus and pes cavus
15. Diarthrodial joint
16. The nutation and counter-nutation seen along the sacral region

QP Code: Reg. No……………………..

FIRST YEAR BPT DEGREE EXAMINATIONS

Paper II Physiology

(Model Question Paper -2016 Scheme)

- Answer all Questions
- Draw diagrams wherever necessary

Time 3 hrs   **Max Marks:100**

Essays   (2×15=30)

1. Define cardiac cycle. Describe various events of cardiac cycle with pressure and volume changes.
2. Define pain. Describe the gate control theory of pain.

Short Essays   (4× 10=40)

3. Effect of exercise on respiratory system.
4. Explain neuromuscular junction and neuromuscular transmission.
5. Describe the lung volumes and capacities.

6. Describe in detail about atonic bladder and automatic bladder

Short Answers   (10×3=30)

7. Any six functions of plasma proteins
8. .Explain the types and functions neuroglia
9. Explain the structure and functions of juxtaglomerular apparatus
10. Differentiate between resting membrane potential and action potential
11. Synthesis and functions of surfactant
12. Mention any three methods of artificial respiration
13. Any three factors affecting cardiac output
14. Functions of thalamus
15. Role of insulin and glucagon in diabetes mellitus
16. Define three blood cell indices and mention their normal values.

FIRST YEAR BPT DEGREE EXAMINATIONS

Paper IV Section A: Psychology

(Model Question Paper -2016 Scheme)

- Answer all Questions
- Draw diagrams wherever necessary

Time 1.5 hrs   **Max Marks:50**

Essays   **(1×15=15)**

1. Define learning. Explain theory of classical conditioning with its types and examples

Short Essay   **(2× 10=20)**

2. Explain erickson's theory of development
3. Explain the steps for creative thinking with a suitable example

Short Answer   **(5× 3=25)**

4. Explain 4 laws of perception
5. Mention three types of attention
6. Mention any three intelligence assessment techniques
7. Mention any three personality assessment techniques
8. Coping strategies

Paper IV Section B: Sociology

Time 1.5 hrs   **Max Marks:50**

Essays   **(1×15=15)**

1. Describe about the psychosomatic diseases and their importance to physiotherapy

Short Essays   **(2× 10=20)**

2. Explain the agencies of socialization
3. Role of social factors in health and illness

Short Answers (5× 3=25)

4. Mention any three health hazards of urbanities
5. Effects of sickness in the family
6. The role of medical social worker
7. Mention any three problems faced by women in employment
8. Mention any three consequences of geriatric problems in relation to disability