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Bachelor of Physiotherapy (BPT) First Year (Semester-I) July-2017 Examination

Time: 2.00 Hrs. [Max. Marks: 50]

ANATOMY

Q.P Code: BPT-101

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any two)

2 X 10 = 20 Marks

- 1. Describe the diaphragm under the following heading: origin, insertion, nerve supply and action, openings in the diaphragm, 2 applied aspects.
- 2. Describe the brachial plexus under the following heading: formation, division, branches and applied aspects.
- 3. Define cartilage, classify and explain giving examples.

SHORT ESSAY 3X 5 = 15 Marks

- 4. Middle mediastinum: Boundaries and contents.
- 5. Give the structure of a spermatozoa. What is spermatogenesis?
- 6. Gluteal muscles: name, attachments, action and nerve supply, applied aspect.

SHORT ANSWER 5 X 3 = 15 Marks

- 7. Write a note on cell membrane and mention any two of its functions.
- 8 Carpal bones.
- 9. Dorsal venous arch of the hand.
- 10. SA node.
- 11. Cells of connective tissue.

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Bachelor of Physiotherapy (BPT) First Year (Semester-I) July-2017 Examination

Time: 2.00 Hrs. [Max. Marks: 50]

BIOCHEMISTRY

Q.P Code : BPT-103

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any two)

2 X 10 = 20 Marks

- 1. Discuss source, absorption and transport, functions, RDA, deficiency and Toxicity of Vitamin D.
- 2. Classify amino acids with suitable examples. Add a note on isoelectric PH.
- 3. Describe the classification of carbohydrates with examples. Add a note on Muccopolysaccharides.

 $\underline{SHORT\ ESSAY}$ 3X 5 = 15 Marks

- 4. Structure and functions of tRNA.
- 5. Discuss diagnostic significance of enzymes.
- 6. Phospholipids.

SHORT ANSWER 5 X 3 = 15 Marks

- 7. Endoplasmic reticulum.
- 8. Mention any three factors effecting enzyme activity.
- 9. What are essential fatty acids? Give examples.
- 10. Name any three isoenzymes. Mention their clinical significance.
- 11. Mention the deficiency of the following vitamins.
 - a) Vitamin C
 - b) Thiamin
 - c) Niacin

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Bachelor of Physiotherapy (BPT) First Year (Semester-I) July-2017 Examination

Time: 2.00 Hrs. [Max. Marks: 50]

PHYSIOLOGY

Q.P Code : BPT-102

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Explain cardiovascular and respiratory changes during exercise.
- 2. Define action potential. Explain ionic basic of nerve action potential with the help of a diagram.
- 3. Define erythro poiesis. Describe the changes occuring in the stages of erythro poiesis.

 $\underline{SHORT\ ESSAY}$ 3X 5 = 15 Marks

- 4. Functions of plasma proteins.
- 5. Spirogram
- 6. Composition and functions of saliva.

SHORT ANSWER 5 X 3 = 15 Marks

- 7. Lung surfactant.
- 8 Functions of skin
- 9. Cystometrogram
- 10. Secondary active transport
- 11. Neat labeled diagram of lead II ECG.

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Bachelor of Physiotherapy (BPT) First Year Semester-I, July – 2017 Examination

Time: 2.00 Hrs. Psychology and Sociology [Max. Marks: 50]

Section-A Psychology O.P Code : BPT-105A

Your answer should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. (Use separate answer booklet for section A & B)

 $\underline{SHORT\ ESSAY}$ 5 X 5 = 25 Marks

- 1. Explain the application psychology in Physiotherapic clinic.
- 2. Write about the different stages of human development.
- 3. Write about illusions.
- 4. Write about Maslow's hierarchy.
- 5 What is conflict? Explain its types.

Section – B Sociology Q.P. Code : BPT-105B

(Use separate answer booklet for section B)

SHORT ESSAY $5 \times 5 = 25 \text{ Marks}$

- 1. Define Sociology.
- 2 Role of social factors in health and illness.
- 3. Process of Socialization.
- 4 Primary groups in hospital settings.
- 5. Family and Nutrition.

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Bachelor of Physiotherapy (BPT) First Year (Semester-I) July-2017 Examination

Time: 2.00 Hrs. [Max. Marks: 50]

BIOMECHANICS

Q.P Code : BPT-104

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any two)

2 X 10 = 20 Marks

- 1. Describe the function of shoulder complex, including dynamic stability of glenohumeral joint?
- 2. Explain a typical synovial joint with mechanical properties.
- 3. Draw a diagram of skeletal muscle fiber. Describe various types of muscle contraction with examples of each of the contraction.

 $\underline{SHORT\ ESSAY}$ 3X 5 = 15 Marks

- 4. Explain newton's laws of motion with examples for each laws?
- 5. What is the base of support? How is it related with mobility and stability of the body?
- 6. Enumerate the role of fixators & synergists with example.

SHORT ANSWER 5 X 3 = 15 Marks

- 7. Explain mechanical advantage.
- 8 Explain difference between closed and open kinematic chain.
- 9. Explain anatomical pulley with example.
- 10. Explain lumbo pelvic rhythm?
- 11. Define isometric and isotonic muscle contraction.