(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT) First Year Semester- II, June / July – 2018 Examination

Time: 2.30 Hrs. [Max. Marks: 80]

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)

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

- 1. Explain TCA cycle. Add a note on its energetics.
- 2. Explain sources. RDA, Function, Deficiency manifestation, Hypervitaminosis of vitamin D.
- 3. Define ketogenesis. Write the steps involved is the formation of ketone bodies.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

- 4. What is protein energy malnutrition (PEM)? Classify PEM. Write the clinical features of PEM.
- 5. Explain the digestion, absorption and transport of carbohydrates.
- 6. Add a note on Competitive inhibition.
- 7. Define SDA. What is its significance?
- 8. Write the steps involved in the urea cycle, write the enzyme defect in any two urea cycle disorders.
- 9. Explain the factors affecting enzyme activity.
- 10. What is Glycogenesis? Write the steps involved in glycogen synthesis.
- 11. What is the normal range of serum calcium? Explain the mechanism of regulation of serum calcium level in the body (Calcium homeostasis)

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

- 12. Explain the difference between RNA and DNA.
- 13. Explain the function of vitamin C.
- 14. Add a note on Phenyl ketonuria.
- 15. Define Essential Amino Acids. Mention their names.
- 16. What are ketone bodies? Mention their names.
- 17. Define Balanced diet.
- 18. Explain the function of Iron.
- 19. Write any three hormones involved in blood glucose regulation.
- 20. Add a note on starch.
- 21. What are glucosamino glycens? Give two examples.
- 22. Define Lipoprotein and mention their function.
- 23. What is cAMP? Mention any two biological functions of CAMP?

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT) First Year Semester-II, June/July-2018 Examination

Time: 2.30 Hrs. [Max. Marks: 80]

Psychology and Sociology 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)

LONG ESSAY1X 10 = 10 Marks

1. Explain the theories of learning with suitable examples.

SHORT ESSAY (Answer any Three)

 $3 \times 5 = 15 \text{ Marks}$

- 2. Explain Freud's concept of personality.
- 3. Briefly explain the stages of thinking.
- 4. Explain the theories of emotion.
- 5. Explain the determinants of attention.

SHORT ANSWER (Answer any Five)

5 X 3 = 15 Marks

- 6. Differentiate between authoritarian and democratic leadership.
- 7. Traits of leadership.
- 8. Factors that affect learning.
- 9. Explain observation method.
- 10. State the sources of frustration.
- 11. Enlist types of personalities and define any two of them.

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

(Use separate answer booklet for section B)

LONG ESSAY 1X 10 = 10 Marks

1. Define Sociology. Describe the importance of Sociology with special reference to health care professionals.

SHORT ESSAY (Answer any Three)

 $3 \times 5 = 15 \text{ Marks}$

- 2. Explain the characteristics of the primary groups.
- 3. Distinguish between joint and nuclear family.
- 4. What are the causes of poverty?
- 5. Write a note on technological factor of social change.

SHORT ANSWER (Answer any Five)

5 X 3 = 15 Marks

- 6. Define anticipatory socialization.
- 7. What is polygamy?
- 8. Expand the term SITA.
- 9. State the health consequences of alcoholism.
- 10. Mention the beliefs in Indian culture which have beneficial health effects.
- 11. Population explosion.

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT) First Year Semester- II, June / July – 2018 Examination

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

First, AID, BLS and CPR

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

LONG ESSAY (Answer any One)

 $1 \times 10 = 10 \text{ Marks}$

- 1. Define cardiac arrest. List out the causes of cardiac arrest and first aid management of cardiac arrest.
- 2. Define first aid management of electrocuted patient.

SHORT ESSAY (Answer any Five)

5X 5 = 25 Marks

- 3. Explain the first aid and mobilizing procedures for a 50 year old man who fall down during gait training in physiotherapy department.
- 4. Discuss the various tapes in first aid for cervical spine injured patient.
- 5. How do you resuscitate a two year old child with foreign body oropharynx?
- 6. Discuss the various mobilizing transfer techniques for patient in emergency situations.
- 7. Common positions used for patient comfort.
- 8. BLS cardiac arrest Algorithm for pediatric patient with a single rescuer.
- 9. Discuss about first aid management of drowning victim.

SHORT ANSWER (Answer any Five)

 $5 \times 3 = 15 \text{ Marks}$

- 10. Indications of CPR.
- 11. Universal precautions.
- 12. First aid in burns.
- 13. What are the three types of cardiac arrest?
- 14. Steps in intubation and confirmation of endotracheal tube placement.
- 15. Reversible cause of cardiac arrest.

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT)First Year Semester- II, June / July – 2018 Examination

Time: 3.00 Hrs. [Max. Marks: 100]

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)

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

- 1. Explain biomechanics of thorax and chest wall.
- 2. Describe in detail about the articulating structure, kinematics of tibiofemoral joint.
- 3. What is Muscle Tension? Classify it and explain in detail length, tension relationship and factors affecting Muscle Tension.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

- 4. Scapulohumeral rhythm.
- 5. Describe joint lubrication mode.
- 6. Define posture, types of posture, explain about mechanism of posture.
- 7. Write the types of Newton law and explain about the law acceleration.
- 8. Write in detail about structure of menisci and its functions.
- 9. Explain the patellar motions, and patella femoral joint reaction force.
- 10. Describe about the muscle function during bilateral stance.
- 11. Write the types of walking aids and its advantages and disadvantages.
- 12. Describe the types of joints with example.
- 13. Discuss the types of pelvic motions and its importance.
- 14. Explain arches of foot and its functions.
- 15. Compare prehension and precision.

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

- 16. Define metatarsal break.
- 17. Define torque with example.
- 18. Mechanical and anatomical axis.
- 19. Give the phases of gait.
- 20. What are the primary and accessory muscles respiration.
- 21. Define creep and hysteresis.
- 22. Weight bearing subtailar functions.
- 23. Define trabeculae system in hip joint.
- 24. Give few indications of using parallel bars.
- 25. Carrying angle.
- 26. What are the muscles used for locking and unlocking.
- 27. Concurrent force system.

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT) First Year Semester- II, June / July – 2018 Examination

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

First, AID, BLS and CPR

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

LONG ESSAY (Answer any One)

 $1 \times 10 = 10 \text{ Marks}$

- 1. Define cardiac arrest. List out the causes of cardiac arrest and first aid management of cardiac arrest.
- 2. Define first aid management of electrocuted patient.

SHORT ESSAY (Answer any Five)

5X 5 = 25 Marks

- 3. Explain the first aid and mobilizing procedures for a 50 year old man who fall down during gait training in physiotherapy department.
- 4. Discuss the various tapes in first aid for cervical spine injured patient.
- 5. How do you resuscitate a two year old child with foreign body oropharynx?
- 6. Discuss the various mobilizing transfer techniques for patient in emergency situations.
- 7. Common positions used for patient comfort.
- 8. BLS cardiac arrest Algorithm for pediatric patient with a single rescuer.
- 9. Discuss about first aid management of drowning victim.

SHORT ANSWER (Answer any Five)

 $5 \times 3 = 15 \text{ Marks}$

- 10. Indications of CPR.
- 11. Universal precautions.
- 12. First aid in burns.
- 13. What are the three types of cardiac arrest?
- 14. Steps in intubation and confirmation of endotracheal tube placement.
- 15. Reversible cause of cardiac arrest.