

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**Bachelor of Physiotherapy (BPT)  
First Year (Semester-II) October-2017 Examination**

**Time: 2.00 Hrs.**

**[Max. Marks: 50]**

**PAPER-I**

**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 extraocular muscles under following questions.  
a) Origin b) Insertion c) Nerve supply d) Movements e) Blood supply
2. Describe the cerebrum with their lobes and add note on superolateral surface of cerebrum.
3. Describe the right kidney with location, coverings, blood supply, nerve supply and peritoneal relations.

**SHORT ESSAY**

**3X 5 = 15 Marks**

4. Fate of somites.
5. Section of midbrain at the level of red nucleus.
6. Parts and blood supply of thyroid gland.

**SHORT ANSWER**

**5 X 3 = 15 Marks**

7. List the structures passing through the porta hepatis.
8. Second part of duodenum.
9. Histology of palatine tonsil.
10. Carotid sheath.
11. Name the cranial nerves.

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**PAPER-II**

**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 X 10 = 20 Marks**

1. Draw a neat labeled diagram of visual pathway and explain the effects of lesions at different levels.
2. Define synapse, classify synapse and mention any five properties of synapse.
3. Define menstrual cycle. Explain the hormonal changes during menstrual cycle with diagrams.

**SHORT ESSAY**

**3X 5 = 15 Marks**

4. Write the composition and functions of CSF.
5. Functions of parathyroid hormone.
6. Physiological changes of ageing.

**SHORT ANSWER**

**5 X 3 = 15 Marks**

7. Name the sensory tracts.
8. Bell magendie law.
9. Mention the respiratory adjustments in exercise.
10. Tests for hearing.
11. Define and classify jaundice.

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**PAPER-III**

**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. Explain beta oxidation of palmitic acid in detail. Add a note on energetics.
2. What is the normal testing blood glucose level? Briefly explain the blood glucose level.
3. Describe the sources, daily requirement, absorption, biochemical functions and deficiency manifestation of calcium.

**SHORT ESSAY**

**3X 5 = 15 Marks**

4. Define dietary fibers with examples and explain the nutritional importance of dietary fibers.
5. Explain transamination reactions with two examples.
6. Explain in detail the structure of collagen.

**SHORT ANSWER**

**5 X 3 = 15 Marks**

7. Define BMR name any four factors that affect BMR.
8. Give the normal values of Serum sodium, calcium and potassium.
9. Give the normal PH of blood. List any two mechanisms by which acid base balance is regulated.
10. Rotheras test- principle and importance.
11. Name any three biologically important products derived from cholesterol.

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**PAPER-IV**

**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. Define gait. Explain in detail about various phases of gait.
2. Write the principles of goniometry. Explain the techniques of measurement of all the movements of hip joint.
3. Define prehension. What are the types of prehension. Discuss any two types of prehension.

**SHORT ESSAY**

**3X 5 = 15 Marks**

4. Discuss the frontal plane analysis of posture.
5. Describe the determinants of gait.
6. Explain the kinematics of knee joint motions.

**SHORT ANSWER**

**5 X 3 = 15 Marks**

7. Define the functional position of wrist and hand.
8. Define metatarsal break.
9. Define carrying angle.
10. Define lumbo pelvic rhythm.
11. Define any two malalignments which results in gait deviations.

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**PAPER-V**

**[Max. Marks: 50]**

**Psychology and Sociology**

**Section-A**

**Psychology**

**Q.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)*

**SHORT ESSAY**

**5 X 5 = 25 Marks**

1. Define intelligence. Describe two theories of intelligence.
2. Describe a few traits of creative people.
3. What is classical conditioning? Explain with an example.
4. Describe five rating scales used in personality assessment.
5. What is 'Attitude'? describe the development of attitude.

**Section – B**

**Sociology**

**Q.P. Code: BPT-105B**

*(Use separate answer booklet for section B)*

**SHORT ESSAY**

**5 X 5 = 25 Marks**

1. Factors affecting social change.
2. Social problem-juvenile Delinquency.
3. Medical social work.
4. Socialization in rehabilitation of patient.
5. Social survey.