

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT)
First Year Semester-I, February – 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 hip joint under the following headings.
 - a. Articular surfaces and ligaments
 - b. Relations
 - c. Movements with applied anatomy
2. Describe the right lung in detail. Add a note on its applied Anatomy.
3. Describe the breast in detail. Add a note on its applied Anatomy.

SHORT ESSAY

3X 5 = 15 Marks

4. Fertilization.
5. Inferior mediastinum.
6. Gluteus maximus muscle.

SHORT ANSWER

5 X 3 = 15 Marks

7. Boundaries of cubital fossa.
8. Name the different types of synovial joints.
9. Histology of T.S of compact bone.
10. Name the different types of pericardium.
11. Name the thenar muscles.

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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 sources, coenzyme form, functions, RDA, deficiency of Thiamine.
2. Classify enzymes with suitable examples. Describe any three factors affecting enzyme activity.
3. Discuss sources, RDA, Digestion and absorption, functions and disorders of calcium.

SHORT ESSAY

3X 5 = 15 Marks

4. Biologically important peptides.
5. Discuss diagnostic significance of enzymes.
6. Lipoproteins.

SHORT ANSWER

5 X 3 = 15 Marks

7. Endoplasmic reticulum.
8. Glycosaminoglycans.
9. Essential fatty acids and PUFA.
10. Role of Iron.
11. Structure and function of DNA.

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[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 X 10 = 20 Marks

1. Define excitation contraction coupling. Explain the molecular basis of skeletal muscle contraction.
2. Define cardiac cycle. Explain volume and pressure changes occurs during ventricular cycle.
3. Explain oxygen hemoglobin dissociation curve with the help of diagram. Add a note on Bohr and Haldane effect.

SHORT ESSAY

3X 5 = 15 Marks

4. Movements of intestine.
5. Stages of erythropoiesis.
6. Baroreceptor reflex.

SHORT ANSWER

5 X 3 = 15 Marks

7. Compliance of lung.
8. Wallerian degeneration.
9. Juxta glomerular apparatus.
10. Primary active transport.
11. Properties of cardiac muscle.

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[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 different planes and axis in relation to human body with a neat diagram?
2. Describe types of muscle contraction and factors affecting muscle tension.
3. Define Centre of gravity and its relation with base of support, in walking.

SHORT ESSAY

3X 5 = 15 Marks

4. Define parallel force system with one example in the human body.
5. Newton's laws. With examples.
6. Explain stability of lumbar vertebrae.

SHORT ANSWER

5 X 3 = 15 Marks

7. Explain coefficient of friction.
8. Mechanical advantage.
9. Define scoliosis.
10. Define bucket handle movement of rib cage.
11. Define active and passive insufficiency.

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Time : 2.00 Hrs.

Psychology and Sociology

[Max. Marks : 50]

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. Fields of applied psychology.
2. Nature V/S Nurture controversy.
3. What is illusion? Types of illusion.
4. Maslow's hierarchy.
5. Levels of emotions. Physiological changes.

Section – B

Sociology

Q.P. Code : BPT-105B

(Use separate answer booklet for section B)

SHORT ESSAY

5 X 5 = 25 Marks

1. Define sociology? Briefly explain the scope of sociology.
2. How social factors plays an important role in health and illness?
3. Briefly explain the agencies of socialization.
4. Define family? Briefly explain its general characteristics.
5. Define rural community? Briefly explain its characteristics.

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