Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T Degree Examination – 04-May-2026

Time: Three Hours **Max. Marks: 100 Marks**

HUMAN ANATOMY (RS5)

Q.P. CODE: 2731

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

LONG ESSAYS (Second Question Choice) **2 x 10 = 20 Marks**

1. Describe the Tempero – mandibular joint in detail.
2. Describe the brachial plexus in detail.
   OR
   Describe in detail sole of Foot.

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Hamstrings.
   OR
   Supination and pronation.
4. Relations of kidney.
5. Support of uterus.
6. Bronchopulmonary segments.
7. Coronary arteries.
8. Right atrium.
9. Fertilization.
10. Corpus callosum.
11. Sternal angle.
12. Popliteal Fossa.
    OR
    Sternocleidomastoid muscle.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Hormones of pituitary gland.
14. Ligaments of Liver.
15. Name the muscles of Mastication.
16. Neuron.
17. Islets of Langerhans.
18. Cardiac muscle.
19. Name the meninges of Brain.
20. Parts of extrahepatic biliary apparatus.
21. Male urethra.
22. Name the parts of large intestine.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 06-May-2026

Time: Three Hours **Max. Marks: 100 Marks**

HUMAN PHYSIOLOGY (RS - 5)
Q.P. CODE: 2732

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

LONG ESSAYS (Second Question choice) **2 x 10 = 20 Marks**

1. Define cardiac cycle. Discuss the phases during ventricular systole and diastole.
2. Explain the role of a triad in skeletal muscle contraction. Add a note on Myasthenia gravis.

   Or

   Enumerate the descending pathway. Trace pyramidal tracts, write its functions. Briefly describe the functions of cerebellum.

SHORT ESSAYS (Question No.3 & 12 choice) **10 x 5 = 50 Marks**

3. Draw and label the oxygen dissociation curve. Explain the factors that shifts it to the right and left.

   Or

   Define Chronaxie and Rheobase. Draw a diagram of strength-duration curve.
4. Describe the functions of thrombocytes. What is the normal value?
5. Describe the composition and functions of saliva.
6. Define micturition. With a labeled diagram explain the micturition reflex.
7. Discuss the role of parathyroid hormone, calcitonin and 1,25 DHCC on blood calcium concentration.
8. Differentiate between fast pain and slow pain.
9. Tabulate the differences between the I and II heart sounds.
10. Define secondary sexual characteristics. Enumerate the secondary sexual characteristics in a female.
11. Draw and label the normal ECG waves. Write the cause of each wave. List the uses of ECG.
12. Outline the mechanism of neuro-muscular transmission.

    Or

    Explain accommodation reflex.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. **Define Heart Rate and Cardiac Output**
14. What is a triad? Draw a labelled diagram of a triad.
15. Define Bhor's effect.
16. State the Landsteiner's law.
17. Define myopia and Hypermetropia.
18. Give the normal value of PCV and ESR.
19. Name neuro-endocrine hormones.

20. What is ovulation? Write its hormonal basis.
21. Define Hemeostasis.
22. What is artificial kidney?

RGUHS THEORY EXAMINATION MAY 2026

NODAL CENTRE:PADMASHREE INSTITUTE OF PHYSIOTHERAPY

Date: 06 May 2026 **Session: Morning**

CORRECTIONS

HUMAN PHYSIOLOGY (RS - 5) Q.P. CODE: 2732			
Q. No	**Question Appeared As**	**Question Corrected As**	**Reason for Correction**
13.	Define cardiac cycle.	Define Heart Rate and Cardiac Output	Q1 repeated

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 08-May-2026

Time: Three Hours **Max. Marks: 80 Marks**

BIOCHEMISTRY (RS-5)
Q.P. CODE: 2733

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Explain the steps of urea cycle. Write the disorders of urea cycle.
2. Write the sources, RDA, functions and deficiency disorders of Vitamin D.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

3. Write the nutritional importance of lipids.
4. Define and write the functions of heteropolysaccharides with examples.
5. Explain the absorption of iron.
6. Explain the structure and functions of mitochondria.
7. Define buffers and write about the bicarbonate buffer system in our body.
8. Define dietary fibres and add a note on the beneficial effects of it.
9. Write the diagnostically important enzymes and their significance.
10. Explain the structure and functions of t RNA.
11. Explain the types, features and management of Diabetes Mellitus.
12. Explain the digestion and absorption of lipids.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Deficiency of niacin.
14. Mitochondria.
15. Benedict's test.
16. Write the normal levels of serum uric acid and creatinine in our body.
17. Define essential amino acid.
18. Define pro enzyme and active site of an enzyme.
19. Define ketosis.
20. Scurvy.
21. Write two functions of copper.
22. Define active transport.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 13-May-2026

Time: 3 Hours **Max. Marks: 40 Marks**

SOCIOLOGY (RS5)
Q.P. CODE: 2736

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.
(Note: Both QP Codes 2735 and 2736 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Discuss the various methodologies of sociological investigation.
2. Explain the stages of socialization.

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Types of family.
4. Health effects of child labour.
5. Features of social group.
6. Distinguish between rural and urban community.

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Immoral traffic act.
8. Polyandrous family.
9. Medical social work.
10. Types of social group.
11. Stress related disorders.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - 13-May-2026

Time: 3 Hours **Max. Marks: 40 Marks**

PSYCHOLOGY (RS5)
Q.P. Code: 2735

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.
(Note: Both QP Codes 2735 and 2736 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define Personality. Describe some of the important theories of Personality
2. Define perception. Explain the factors and errors of perception

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Define Learning. Trial and error learning and its laws
4. Define Motivation. Abraham Maslow's hierarchy of Needs.
5. Define Psychology. Methods used to study behaviour in Psychology
6. States of cognitive development by Piaget.

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Modification of Attitudes
8. Achievement motives
9. Qualities of a leader
10. Types of Reasoning
11. List defence mechanisms

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T Degree Examination – 11-May-2026

Time: Three Hours **Max. Marks: 100 Marks**

BIO-MECHANICS (RS5)
Q.P. CODE: 2734

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

LONG ESSAYS (Second Question Choice) **2 x 10 = 20 Marks**

1. What is the difference between power and precision grip? Explain any two power grips in detail.
2. Define joint. Write in detail joint classification with examples.

   OR

   Explain in detail kinetics and kinematics of gait.

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Explain the kinematics of sternoclavicular joint.

   OR

   Add a note on active and passive insufficiency with example.
4. Length – tension relationship
5. **Explain Staircase gait**
6. **Write the variations seen between cervical and lumbar vertebrae.**
7. Define pennation. Write a note on types of pennation.
8. Explain the pelvic movements.
9. Describe sliding filament theory.
10. Add a note on arthrokinematics and osteokinematics with example.
11. Explain in detail the muscles responsible for ventilation.
12. Describe the advantage of using cane on contralateral side.

    OR

    What are the types of muscles? Explain tonic and phasic muscles.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. What is Motor unit?
14. What are the movements of 1st carpometacarpal joint?
15. What is ligament of Bigelow?
16. Add a note on advantage of Glenoid labrum.
17. Describe in short anterior cruciate ligament.
18. What is odd facet?
19. What is Pes cavus?
20. Describe in short zygapophyseal joint.
21. What are the axis and planes for knee joint movements?
22. What are the rotator cuff muscles of shoulder joint?

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