Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.H.M.S Degree Examination – 05-Mar-2026

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

HUMAN ANATOMY – PAPER - I (RS4 & RS5)

QP Code: 1451

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Describe the extent, parts and constrictors of pharynx. Mention features of naso pharynx.
2. Describe the formation, course and distribution of radial nerve.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Classify the joints based on structure.
4. Classify the skeletal muscles based on their actions.
5. Describe the fibrous joints.
6. Describe the nuclei and functions of hypothalamus.
7. Describe the process of cleavage and implantation of fertilized ovum.
8. Describe the features on the norma lateralis of skull.
9. Describe the location, relations and blood supply of palatine tonsil.
10. Describe the intrinsic and extrinsic muscles of the tongue. State their nerve supply.
11. Explain the formation of superficial palmar arch. Mention its branches.
12. Mention the attachments, nerve supply and actions of triceps brachii muscle.

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

13. Define anatomical position.
14. Enumerate the spinal nerves region wise.
15. Describe the parts of the internal capsule of brain.
16. Mention the parts of mid-brain in transverse section.
17. Name the parts of pituitary gland.
18. Mention the structures derived from ectoderm.
19. Draw and label spermatozoon.
20. Name the pneumatic bones in the skull.
21. Mention the nerve supply of the extrinsic muscles of the eye ball.
22. Define palmar aponeurosis.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.H.M.S Degree Examination – 07-Mar-2026

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

HUMAN ANATOMY – Paper-II (RS4/RS5)
QP Code: 1452

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Describe external features, blood supply, nerve supply and lymphatic drainage of Heart.
2. Describe features, relation, Function and clinical anatomy of Spleen.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Describe boundaries, spaces, contents and applied aspect of Ischio Rectal Fossa.
4. Describe parts, course, relation and clinical anatomy of Uterine Tubes.
5. Describe parts and attachment of upper end of Femur.
6. Describe location, boundaries and contents of Popliteal fossa.
7. **Describe Boundaries contents and applied aspect of Femoral triangle**
8. Describe microscopic structure of Testis.
9. Describe typical Thoracic Vertebra.
10. Describe blood supply of Stomach.
11. Describe functions and applied anatomy of Gall Bladder.
12. Describe origin, insertion, nerve supply of Rectus Abdominus Muscle.

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

13. Mention parts of Female External Genital Organs.
14. Mention clinical anatomy of Anal Canal.
15. Describe the Cruciate ligaments of the Knee Joint.
16. Mention applied anatomy of Gluteal Muscles.
17. Mention applied anatomy of Common Peroneal Nerve.
18. **Mention the 4 characteristics feature of microscopic structure of skin**
19. Name structures in Hilum of Lungs
20. Name branches of Arch of Aorta.
21. Write differences between Jejunum & Ileum.
22. Mention ducts of Pancreas.

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Rajiv Gandhi University of Health Sciences, Karnataka

First Professional BHMS (CBDC) Degree Examination - 05-Mar-2026

Time: Three Hours Max. Marks: 100

HUMAN ANATOMY – PAPER I (RS-6)

Q.P. CODE: 1476

(QP contains two pages)

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

NOTE: MCQ answers must be written in words along with alphabets

Long Answer Questions **5 x 10 = 50 Marks**

1. Describe the brachial plexus under following headings:
   a. Root value
   b. Formation
   c. Name the branches
2. 55-year-old male suffered a heavy blow to the arm near the elbow. He complained of pain and swelling near elbow. X-revealed supra condylar fracture of humerus
   a. Name the nerve related to the medial epicondyle of humerus.
   b. Mention the articular and non-articular parts of the lower end of humerus
   c. Name the muscles attached to the medial and lateral supra condylar lines and medial and lateral epicondyles of humerus
3. describe posterior triangle of neck under the following headings
   a. Boundaries
   b. Contents
   c. Applied anatomy
4. e patient reported to OPD complaining of Headache, Pressure-like pain, pain behind the eyes, toothache, Nasal stuffiness and discharge, Sore throat and postnasal drip. He also complained of bad breath. He was diagnosed with sinusitis.
   a. Name paranasal air sinuses
   b. Mention their functions
   c. Mention the meatuses through which they open into the nasal cavity
5. scribe the oculomotor nerve under the following headings:
   a. Origin and course
   b. Branches and distribution
   c. Applied aspect

Short Answer Questions **8 x 5 = 40 Marks**

6. **Define Haversian system. Describe the parts of Haversian system**
   Or
   Define joints Describe the structure of synovial joint
7. Describe the formation of typical spinal nerve
8. cribe the boundaries and contents of cubital fossa
9. Describe the process of gastrulation
10. Describe formation of graafian follicle
11. Describe the blood supply of thyroid gland
12. cribe the nasal septum. Mention its blood and nerve supply
13. cribe the boundaries and contents of III ventricle

Rajiv Gandhi University of Health Sciences, Karnataka

Multiple Choice Questions **10 x 1 = 10 Marks**

14. The Pineal gland is
    A. An endocrine gland
    B. Exocrine gland
    C. Mixed gland
    D. Digestive gland
15. The periosteum is covering of
    A. Cartilage
    B. Bone
    C. Nerve
    D. Muscle
16. Order of structures from medial side to lateral side in cubital fossa is:
    A. Median nerve, brachial artery, biceps tendon and radial nerve
    B. Median nerve, biceps tendon, radial nerve, branchial artery
    C. Median nerve, brachial artery, radial nerve and biceps tendon
    D. Brachial artery, median nerve, biceps tendon, radial nerve
17. Deltoid helps in abduction of shoulder joint from which angle?
    A. 0 to 15 degrees
    B. 0 to 45 degrees
    C. 0 to 90 degrees
    D. 0 to 120 degrees
18. Crossing over occurs in
    A. Metaphase
    B. Meiosis
    C. Telophase
    D. Mitosis
19. Embryonic period stretches from
    A. 3^{rd} week to 8^{th} week of intrauterine life
    B. 4^{th} week to 8^{th} week of intrauterine life
    C. 5^{th} week to 9^{th} week of intrauterine life
    D. 6^{th} week to 9^{th} week of intrauterine life
20. General sensory nerve supply to anterior 2/3 of the tongue is by
    A. Hypoglossal nerve
    B. Glossopharyngeal nerve
    C. Chorda tympani
    D. Lingual nerve
21. Nasolacrimal duct opens into the
    A. Inferior meatus of the nose
    B. Middle meatus of the nose
    C. Superior meatus of the nose
    D. None of the above
22. The total number of cranial nerves is
    A. 3 pairs
    B. 6 pairs
    C. 12 pairs
    D. 31 pairs
23. Total volume of cerebrospinal fluid is approximately
    A. 25 ml
    B. 50 ml
    C. 100 ml
    D. 150 ml

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Rajiv Gandhi University of Health Sciences, Karnataka

First Professional BHMS (CBDC) Degree Examination - 07-Mar-2026

Time: Three Hours Max. Marks: 100

HUMAN ANATOMY – PAPER II (RS-6)
Q.P. CODE: 1477
(QP contains two pages)

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
NOTE: MCQ answers must be written in words along with alphabets

Long Answer Questions **5 x 10 = 50 Marks**

1. A raffic police reports to the clinic with the weakness and dull aching, burning sensation in the lower limbs. At times crampy pains. He also complains of blackish discoloration of the skin around the ankle joint and itching of the skin. On examination the vessels are tortuous and dilated in both the lower limbs. And was diagnosed with varicose veins
    a. Name the superficial veins of the lower limb
    b. Describe the course and relations of great saphenous vein
    c. Mention the tributaries
2. Describe right atrium under the following headings:
    a. External features
    b. Interior
    c. Openings
3. Describe superior vena cava under the following headings:
    a. **Formation**
    b. Course and relation
    c. Tributaries
    d. Applied anatomy
4. Describe the pancreas under following headings
    a. Parts and relations
    b. Blood supply
    c. Applied anatomy
5. A 19 year old girl complained of loss of hair from head. Has more hair on face and with more hair on body. She complained of severe mood swings, insomnia, irregular periods for almost a year and had severe acne. Based on USG findings she was diagnosed with poly cystic ovarian syndrome
    a. Describe the features of ovary
    b. Name the ligaments of ovary
    c. Name the hormones secreted by ovary

Short Answer Questions **8 x 5 = 40 Marks**

6. Describe the structures under gluteus maximus muscle.
7. Describe origin, course and branches of popliteal artery
8. Name the retinacula around the ankle. Describe attachments of inferior extensor retinaculum. Mention the structures passing beneath it.
9. Mention the major openings in the diaphragm and structures passing through them
10. Describe the morphology of spleen
11. Describe morphology of caecum. Mention its applied anatomy
12. Describe the formation, course and tributaries of inferior vena cava
13. Describe the microscopic structure of pancreas

Rajiv Gandhi University of Health Sciences, Karnataka

Multiple Choice Questions **10 x 1 = 10 Marks**

14. The muscle Semitendinosus is supplied by
    A. Femoral nerve
    B. Obturator nerve
    C. Saphenous nerve
    D. Tibial part of sciatic nerve
15. It is **NOT** a content of popliteal fossa
    A. Popliteal artery
    B. Tibial nerve
    C. Femoral nerve
    D. Obturator artery
16. Foreign bodies are most commonly lodged in
    A. Right principal bronchus
    B. Left principal bronchus
    C. Both a & b
    D. None of the above
17. The number of bronchopulmonary segments in right lung are
    A. 2
    B. 3
    C. 6
    D. 10
18. Oesophagus passes through
    A. Anterior and superior mediastinum
    B. Posterior and superior mediastinum
    C. Anterior and middle mediastinum
    D. Middle and posterior mediastinum
19. The inner mucosa of stomach has multiple folds known as
    A. Rugae
    B. Trabecula
    C. Cilia
    D. Papilla
20. Inlet of pelvis in females is
    A. Round
    B. Oval
    C. Heart shaped
    D. Diamond shaped
21. Which of the following is not a simple epithelium?
    A. Stratified squamous
    B. Pseudostratified
    C. Simple columnar
    D. Simple squamous
22. Afferent and efferent lymphatics are present in one of the lymphoid organs:
    A. Thymus
    B. Palatine tonsil
    C. Spleen
    D. Lymph node
23. Which of the following connective tissue fibers is predominantly present in respiratory system
    A. muscle
    B. Elastic
    C. Reticular
    D. All of the above

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.H.M.S Degree Examination – 07-Mar-2026

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

HUMAN ANATOMY – Paper-II (RS4/RS5)
QP Code: 1452

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LONG ESSAY **2 X 10 = 20 Marks**

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SHORT ESSAY **10 X 5 = 50 Marks**

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

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14. Mention clinical anatomy of Anal Canal.
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Rajiv Gandhi University of Health Sciences, Karnataka

First Professional BHMS (CBDC) Degree Examination - 07-Mar-2026

Time: Three Hours | Max. Marks: 100

HUMAN ANATOMY – PAPER II (RS-6)
Q.P. CODE: 1477
(QP contains two pages)

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Long Answer Questions **5 x 10 = 50 Marks**

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    g. Tributaries
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5. ə year old girl complained of loss of hair from head. Has more hair on face and with more hair on body. She complained of severe mood swings, insomnia, irregular periods for almost a year and had severe acne. Based on USG findings she was diagnosed with poly cystic ovarian syndrome
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Rajiv Gandhi University of Health Sciences, Karnataka

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    E. Right principal bronchus
    F. Left principal bronchus
    G. Both a & b
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    E. 2
    F. 3
    G. 6
    H. 10
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    F. Trabecula
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    E. Round
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    E. Stratified squamous
    F. Pseudostratified
    G. Simple columnar
    H. Simple squamous
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    E. Thymus
    F. Palatine tonsil
    G. Spleen
    H. Lymph node
23. Which of the following connective tissue fibers is predominantly present in respiratory system
    E. muscle
    F. Elastic
    G. Reticular
    H. All of the above

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.H.M.S Degree Examination – 10-Mar-2026

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

PHYSIOLOGY AND BIOCHEMISTRY – PAPER - I (RS4 & RS5)
QP Code: 1453

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Name the Plasma protein. Explain the functions of plasma proteins.
2. Define cardiac cycle. Explain the ventricular events of the cardiac cycle.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Explain the mechanism of anti-bodies action in immunity.
4. Explain renal regulation of arterial blood pressure.
5. Define hypoxia. Classify hypoxia. Describe the pathophysiology of hypoxic hypoxia.
6. Define compliance. Write the normal value. How the static compliance is measured.
7. Describe transport of CO_2 in the blood.
8. Describe mechanism of water reabsorption by the kidney.
9. Define Renal Auto regulation. Explain two mechanisms involved in it.
10. Explain functions of the skin.
11. Explain the role of heat gain center in regulation of body temperature.
12. Describe the types of smooth muscle.

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

13. Define RNA. Mention the types of RNA.
14. Outline the composition of body fluid.
15. Define pinocytosis. Explain the mechanisms involved in Pinocytosis.
16. Define Secondary active transport. Mention the types.
17. Define polycythemia. Mention the physiological causes.
18. Define refractive period.
19. Define residual volume.
20. Describe the importance of apneustic center in respiration.
21. Sketch the Renin-Angiotensin mechanism.
22. Outline the mechanism of artificial kidney

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