

1841 – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

UNIT 4

SUB TOPIC – 10 MUSCULOSKELETAL SYSTEM

I. Elaborate on

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Describe the vertebral column in detail.	March 2021	Analyze
2	Describe the steps involved in Excitation – contraction coupling?	February 2022	Understand
3	Write in detail about the physiology of skeletal muscle contraction with suitable diagrams..	November 2022	Analyze
4	Write about the classification of Joints and movements at the Joints.	April 2023	Analyze
5	Draw the neuromuscular junction and write the sequence of events in the neuromuscular junction.	April 2022	Analyze
6	Describe the Vertebral Column in detail.	April 2024	Analyze
7	Write in detail about the Musculoskeletal System: Classification of bones & joints, structure of skeleton – structure of skeletal muscle – physiology of muscle contraction, Structure and classification of joints, movements at the joints. Bones & Joints of upper extremity, Bones of thoracic cage, Clavicle and scapula, Joints of shoulder girdle, Bones of pelvis, Bones & Joints of lower extremity, Bones of skull and Fontanelles, Base of skull, Bones of face, Cervical spine and atlanto axial joints, Dorsal spine, Lumbo Sacral spine, Mandible and TM joints, Mastoids and PNS.	-	Analyze

II. Write notes on

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	A typical Lumbar Vertebrae.	February 2020	Understand
2	Describe the classification of joints with example.	February 2020	Understand
3	Explain synovial joint and give examples.	March 2021	Understand
4	Neuromuscular junction.	March 2021	Understand
5	Classification of joints and explain ball and socket joint.	April 2022	Understand
6	Anatomical planes of the body.	November 2022	Understand
7	Connective tissue.	November 2022	Understand
8	Structure of male and female pelvis.	November 2022	Understand
9	Connective tissue.	April 2023	Understand

III. WRITE SHORT NOTES ON

3 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Name some neuromuscular blockers.	August 2019	Remember
2	Types of fractures.	August 2019	Remember
3	What are the types of bones? Give example.	February 2020	Remember
4	What are Axial and Appendicular skeleton?	February 2020	Remember
5	What are the Intercostal Muscles?	March 2021	Remember
6	Bones of pelvis.	March 2021	Remember
7	Classification of Bones.	April 2022	Remember
8	Connective tissue.	November 2022	Remember
9	Name the bones of the upper limbs.	November 2022	Remember
10	Clavicle.	April 2023	Remember
11	Bones of Pelvis.	April 2023	Remember
12	Fontanelles.	April 2023	Remember
13	Bones of Thoracic cage.	November 2023	Remember
14	Classification of Joints.	April 2024	Remember
15	Types of Bones.	April 2024	Remember

SUB TOPIC – 11 EYE & ENT

I. Elaborate on

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Write in detail about the Eye & ENT: Anatomy of Ear, hearing, vision. Anatomy of eye, Orbits including orbital fissure and optic foramina. Nose, Throat- Elementary knowledge on functions of taste, smell.	-	Analyze

II. Write notes on

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Para Nasal Sinuses.	February 2020	Understand
2	Rods and cones.	April 2022	Understand
3	Physiology of Taste.	April 2024	Understand
4	Anatomy of Eye.	April 2024	Understand

III. WRITE SHORT NOTES ON

3 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Structure and functions of middle ear.	April 2022	Remember
2	Olfactory pathway.	March 2021	Remember
3	Taste pathway.	November 2022	Remember
4	Physiology of Hearing.	April 2023	Remember

SUB TOPIC – 12 NERVOUS SYSTEM

I. Elaborate on

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Write in detail about the Nervous System various parts of nervous system- Brain and its parts Divisions of brain and its functions– functions of nervous system - Spinal Cord & Nerves, Cranial nerves, Anatomy of nerves, sensory pathway Spinal cord and spinal nerves. The méninges and ventricles of brain and the CSF.	-	Analyze

22

II. Write notes on

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Describe Cerebellum.	February 2020	Understand
2	Blood supply of brain.	March 2021	Understand
3	Neuromuscular junction.	March 2021	Understand
4	Circulation of cerebrospinal fluid.	April 2022	Understand
5	Neuron.	April 2023	Understand
6	Circle of Willis.	April 2024	Understand

III. WRITE SHORT NOTES ON

3 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Any two functions of CSF.	August 2019	Remember
2	List the Lobes of cerebrum.	August 2019	Remember
3	Name the cranial nerves.	March 2021	Remember
4	Lobes of cerebrum.	April 2022	Remember
5	Blood supply of brain.	November 2022	Remember
6	Name three Cranial Nerves.	November 2022	Remember

7	Name three Cranial nerves.	November 2023	Remember
8	Functions of CSF.	November 2023	Remember
9	Define Meningitis.	April 2024	Remember
10	Types of nerve fibers.	April 2024	Remember
11	Name the ventricles in Brain.	April 2024	Remember
12	What is Blood Brain Barrier?	April 2024	Remember