

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 2301

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2019-2020 onwards – Paper I)

(Candidates admitted from 2020-2021 onwards – Paper II)

PAPER I & II – ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY

Q.P. Code : 282301

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Describe the CSF circulation under following headings [4+4+4+4+4]
 - a) Formation
 - b) Circulation
 - c) Absorption
 - d) Composition of CSF
 - e) Applied aspect
2. Define the Cardiac cycle. What are the events in a cardiac cycle? Describe the ventricular events in detail. Add a note on heart sounds. [5+5+5+5]

II. Write Short Notes on:

(10x6 = 60)

1. Blood supply of Pancreas.
2. Describe the different types of neuroglia and mention function of each.
3. Ligaments of shoulder joint.
4. Pituitary gland with applied aspects.
5. Explain the biochemical significance of urea cycle.
6. Deltoid muscle-attachments and applied anatomy
7. Classify fractures and describe stages of healing.
8. Describe the synthesis and function of Thyroid gland.
9. Broncho pulmonary segments.
10. List the various constituents of blood. What are the functions of blood?

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[AHS 1022]

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Q.P. Code : 282301

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Describe the external features of the heart. Add a note on the conducting system of the heart and coronary circulation.
2. Describe the structure, types, metabolism, and functions of lipoproteins.

II. Write Short Notes on:

(10x6 = 60)

1. Functions of sympathetic nervous system.
2. Cross Section of Spinal cord.
3. With the help of a diagram, explain different lung volumes.
4. Write briefly on plasma proteins and their functions.
5. Components and function of juxta-glomerular apparatus.
6. Describe the parts and ligaments of Uterus.
7. Formation and branches of Brachial plexus
8. Describe the Extra ocular muscles and their nerve supply.
9. List the waves seen in a normal ECG and the reason why it is produced.
10. List the parts and blood supply of Pancreas.
