

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

[AHS 0321]

MARCH 2021

Sub. Code: 2202

(OCTOBER 2020 EXAM SESSION)

M.Sc. RESPIRATORY THERAPY

FIRST YEAR (From 2019-2020 onwards)

**PAPER II – APPLIED ASPECTS OF ANATOMY, PHYSIOLOGY AND
BIOCHEMISTRY**

Q.P. Code : 282202

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss in detail about the joints of thorax and its movements. Add a note on its applied aspects.
2. Discuss in detail about the Glycolytic pathway and its importance. Add a note on its applied aspects.

II. Write Short Notes on:

(10x6 = 60)

1. Carbondioxide transport.
2. Innervation of lungs and pleura.
3. Metabolic alkalosis.
4. Anatomy of nasopharynx.
5. Arterial blood gas analysis.
6. Vitamin A – sources , function and applied aspects.
7. Scuba diving physiology.
8. Diaphragm and its function in respiration.
9. Inborn errors of metabolism with few examples.
10. Polysomnography and its importance.

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

[AHS 0222]

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

Sub. Code: 2202

**M.Sc. RESPIRATORY THERAPY
FIRST YEAR (Candidates admitted from 2019-2020 & 2020-2021 onwards)
PAPER II – APPLIED ASPECTS OF ANATOMY, PHYSIOLOGY AND
BIOCHEMISTRY
Q.P. Code : 282202**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss in detail about Lung. Add a note on bronchopulmonary segments and its applied aspects.
2. Enumerate the water soluble vitamins and Discuss in detail about vitamin B12 and its applied aspects.

II. Write Short Notes on:

(10x6 = 60)

1. Anatomy of larynx and congenital anomalies.
2. Mechanism of Respiration.
3. Vitamin D – sources, function and applied aspects.
4. Sleep related breathing disorders.
5. Inborn errors of metabolism with examples.
6. Extracorporeal Membrane Oxygenation.
7. Respiratory alkalosis.
8. Postnatal lung development.
9. Essential minerals and their function.
10. Cardiac cycle.
