

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

[AHS 0222]

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

Sub. Code: 1301

**M.Sc. CLINICAL NUTRITION
FIRST YEAR**

**(Candidates admitted from 2012-2014 onwards - Paper I)
(Candidates admitted from 2020-2021 onwards - Paper II)**

PAPER I & II – APPLIED PHYSIOLOGY

Q.P. Code : 281301

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define immunity. Classify immunity and write in detail about cell mediated immunity
2. Describe in detail the synthesis and functions of thyroid hormones. Add a note on Hypothyroidism.

II. Write notes on:

(10 x 6 = 60)

1. Cystometrogram
2. Intrinsic mechanism of clotting of blood
3. Functions of Placenta
4. Small intestinal movements
5. Taste Pathway
6. Carbondioxide Transport
7. Cardiac pacemaker potential
8. Pyramidal Tract
9. Functions of Lysosomes
10. Passive Transport

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 1301

**M.Sc. CLINICAL NUTRITION
FIRST YEAR**

(Candidates admitted from 2012-2013 onwards – Paper - I)

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

PAPER I & II – APPLIED PHYSIOLOGY

Q.P. Code : 281301

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Erythropoiesis – Definition, Site of Production, Stages and factors necessary for erythropoiesis .Add a note on regulation of Erythropoiesis.
2. Explain transport across cell membrane with suitable examples.

II. Write notes on:

(10 x 6 = 60)

1. Physiology of growth and development.
2. Classification and functions of Antibodies.
3. Gastrointestinal hormones.
4. Lung Volumes and Capacities with Spirogram.
5. Cardiac Output and factors affecting it.
6. Renal function tests.
7. Pyramidal tract.
8. Mechanism of taste perception.
9. Functions of Insulin.
10. Menstrual cycle.

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 1301

**M.Sc. CLINICAL NUTRITION
FIRST YEAR (From 2020-2021 onwards)
PAPER II – APPLIED PHYSIOLOGY**

Q.P. Code: 281301

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Anaemia and explain in detail the classification of Anaemia.
2. Describe in detail the functions of Thyroid hormones.

II. Write notes on:

(10 x 6 = 60)

1. Functions of Liver.
2. Artificial Respiration.
3. Explain the Theories of Ageing.
4. Explain the properties of Cardiac muscle.
5. Body fluid compartments.
6. Cell mediated and Antibody mediated immunity.
7. Renal transplantation.
8. Synapse.
9. Visual Pathway.
10. Physiology of Lactation.
