

**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.

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