----1- C^{*1}

Explain the properties of Cardiac muscle fibre.
Mention the pulmonary function tests useful in assessing the diagnosis and prognosis of a lung disease.

II. Short Questions:

Time : Three Hours

- 1. Autoregulation of blood flow.
- 2. Traube Hering waves.
- 3. Radionucleotide Scanning in evaluating cardiac function.
- 4. What are the factors influencing stability of alveoli?
- 5. Write a note on Tamm Horsfall proteins.
- 6. Stop flow Technique.
- 7. Respiratory responses to Exercise.
- 8. Write a note on Asphyxia.

III. Reasoning Out:

- 1. Persistent cough decreases venous return to heart.
- 2. Breathing pure oxygen at high pressure leads to failure of buffer system in the body.
- 3. Thin walled, delicate capillaries are less prone to rupture.
- 4. Proximal Convoluted Tubules have a high rate of oxygen consumption.

IV. Very Short Questions:

- 1. What is Cushing's Reflex?
- 2. What is Fick's principle?
- 3. What do you mean by Cytopemphis?
- 4. What do you mean by Diffusion Capacity of Lung?
- 5. What is Alkaline Reserve?
- 6. Define Plasma Clearance.
- 7. Malignant Hyperthermia.
- 8. Define Cardiac Cycle.
- 9. Obligatory reabsorption of water.
- 10. Starlings forces

OCTOBER 2014

M.D. DEGREE EXAMINATION BRANCH V – PHYSIOLOGY

PAPER II – CIRCULATION, RESPIRATION, ENVIRONMENTAL PHYSIOLOGY, COMPARATIVE PHYSIOLOGY AND EXCRETION

Q.P. Code :202019

 $(2 \times 10 = 20)$

 $(8 \times 5 = 40)$

(10 x 2 = 20)

 $(4 \times 5 = 20)$

Maximum : 100 marks

Sub. Code: 2019

[LF 122]

I. Essay:

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