

[LN 503]

AUGUST 2018

Sub.Code :5054

**M.B.B.S. DEGREE EXAMINATION
FIRST YEAR
PAPER IV – PHYSIOLOGY INCLUDING BIO-PHYSICS - II**

Q.P. Code: 525054

Time: Three hours **Maximum : 50 Marks**

Answer All Questions

I. Essay: **(1 x 10 = 10)**

1. Describe the classification, connections and functions of cerebellum.

II. Write notes on: **(5 x 4 = 20)**

1. Triple response.
2. Non-respiratory functions of lungs.
3. Mechanism of receptor potential.
4. Factors regulating cardiac output.
5. Anatomic dead space.

III. Short answers on: **(10 x 2 = 20)**

1. The law of projection.
2. Types of hypoxia.
3. Antegrade amnesia.
4. Draw a normal electrocardiogram (ECG). What is Einthoven's triangle?
5. Respiratory exchange Ratio.
6. Attenuation reflex.
7. Mean arterial pressure.
8. Reynold's number.
9. Astigmatism.
10. Functions of thalamus.

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NOVEMBER 2018

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FIRST YEAR
PAPER IV – PHYSIOLOGY INCLUDING BIO-PHYSICS - II**

Time: Three hours*Q.P. Code: 525054***Maximum : 50 Marks****Answer All Questions****I. Essay:****(1 x 10 = 10)**

1. Discuss in detail the neural regulation of respiration.

II. Write notes on:**(5 x 4 = 20)**

1. Ventricular action potential.
2. Tract of Gall and Burdach.
3. Venous return.
4. Lung volumes and capacities.
5. Fetal circulation.

III. Short answers on:**(10 x 2 = 20)**

1. Clinical uses of ECG.
2. P₅₀.
3. Types of deafness.
4. Blood – brain barrier.
5. Anaphylactic shock.
6. Red – green color blindness.
7. Reflex arc.
8. Primary taste sensations.
9. Functions of limbic system.
10. Physiological dead space.
