

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE**  
**FIRST YEAR- (Regulation from 2017-2018 onwards)**  
**PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY**  
*Q.P. Code : 746274*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define arterial blood pressure. Discuss in detail about the regulation of arterial BP. Add a note on Hypertension.
2. Describe the transport of carbon dioxide in Blood.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Erythroblastosis fetalis.
2. Excitation-contraction coupling.
3. Passive and active transport.
4. Artificial respiration – types.
5. Cardiac output and factors regulating it.
6. Structure and functions of synapse.
7. Optic pathway.
8. Brown Sequard syndrome.
9. Diabetes Mellitus.
10. Mechanism of Hydrochloric Acid secretion.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Properties of RBC.
2. Functions of bile.
3. Types of muscle.
4. List any four functions of cerebellum.
5. Functions of placenta.
6. Name any four GI hormones.
7. Inspiratory Reserve Volume.
8. Surfactant and its function.
9. All or None law.
10. Name the hormones involved in Regulation of water balance in our body.

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