

[LH 0815]

AUGUST 2015

Sub. Code: 1207

**B.Sc. CRITICAL CARE TECHNOLOGY**

**(New Syllabus 2014-2015)**

**FIRST YEAR**

**PAPER II – PHYSIOLOGY AND BASIC PHYSICS**

*Q.P. Code: 801207*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Arterial blood pressure and describe about regulation of arterial blood pressure.
2. What are the fundamental and derived units?
3. Enumerate the hormones secreted by pituitary gland, add note on growth hormone and its applied physiology.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Homeostasis.
2. Functions of cell membrane.
3. Spermatogenesis.
4. ECG.
5. Micturition reflex.
6. ABO Blood group.
7. Difference between chemical changes and physical changes.
8. Types of states and matters.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. RNA.
2. Fovea centralis.
3. Functions of bile.
4. Define cardiac cycle.
5. Functions of oxytocin.
6. Anemia.
7. ESR.
8. Isomers.
9. Apoptosis.
10. Gay lussais.

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[LI 0216]

FEBRUARY 2016

Sub.Code :1207

**B.Sc. CRITICAL CARE TECHNOLOGY  
FIRST YEAR  
Paper II – PHYSIOLOGY AND BASIC PHYSICS**

*Q.P Code : 801207*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on:** **(3 x 10 = 30)**

1. Write in detail about cerebrospinal fluid and its circulation with functions.
2. Explain the events of cardiac cycle in detail.
3. Describe the fluid dynamics.

**II. Write Notes on:** **(8 x 5 = 40)**

1. Methods of oxygen transport.
2. Visual pathway.
3. Erythroblastosis foetalis.
4. Function of cerebellum.
5. Arrhythmia.
6. Fluid resistances.
7. Functions of gall bladder.
8. Characteristics of medical gases.

**III. Short Answers on:** **(10 x 3 = 30)**

1. Define blood pressure.
2. Vital capacity.
3. Leukopenia.
4. Blind spot.
5. Atrophy.
6. Sickle cell anemia.
7. Name the auscultatory area.
8. Humidity.
9. Blood groups.
10. Master alarm system.

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