



[AHS 0321]

**MARCH 2021**  
**(AUGUST 2020 EXAM SESSION)**  
**B.Sc. CLINICAL NUTRITION**  
**FIRST YEAR (Regulation 2018-2019)**  
**PAPER II – HUMAN PHYSIOLOGY**  
***Q.P. Code : 803002***

**Sub. Code: 3002**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What is meant by Hemostasis? Explain in detail about stages of blood coagulation.
2. Define cardiac output and stroke volume. Briefly describe factors regulating cardiac output.
3. Name the ascending tracts. Explain in detail about the origin, course and termination of pain pathway.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Physiological basis of blood groups.
2. Compositions and functions of pancreatic juice.
3. Define glomerular filtration rate (GFR) and factors affecting it.
4. Differentiate between upper motor and lower motor lesions.
5. Uterine changes of menstrual cycle.
6. Visual pathway and its lesions.
7. List the functions of liver.
8. List the functions of spleen.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Types and functions of endoplasmic reticulum.
2. Mention the functions of granulocytes.
3. Define sarcomere. Mention different muscle proteins.
4. Mention the non – respiratory functions of lungs.
5. List the changes of puberty in female.
6. Mention the functions of Sertoli cells.
7. What are the functions of middle ear?
8. Define vital capacity and factors affecting it.
9. List the functions of insulin.
10. Mention the functions of cerebro spinal fluid (CSF).

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