

[LF 6253]

AUGUST 2014

Sub. Code : 6253

**FIRST YEAR BPT EXAM  
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY*****Q.P. Code: 746253*****Time: Three hours****Maximum : 100 marks****I. Elaborate on:****(2 x 20 = 40)**

1. Define hemostasis. Discuss in detail the two pathways of coagulation.  
Add a note on hemophilia.
2. Explain the molecular mechanism of contraction in skeletal muscle with a suitable diagram. Add a note on myasthenia gravis.

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

1. Function of saliva.
2. Oxygen-hemoglobin dissociation curve (ODC).
3. Methods to estimate cardiac output.
4. Actions of insulin.
5. Reflex arc.
6. Passive transport across the cell membrane.
7. Erythroblastosis foetalis.
8. Neuroglia.

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

1. Name the agranulocytes of white blood corpuscles (WBC).
2. What is succus entericus? Name one enzyme present in it.
3. What is surfactant? What is its function?
4. Name the normal pace-maker of heart. What is the normal heart rate?
5. What are the hormones involved in calcium metabolism?
6. Name the fat soluble vitamins.
7. What are the layers of glomerular filtering membrane?
8. Name any two inhibitory neurotransmitters.
9. Write any four properties of cardiac muscle.
10. Draw a net diagram of a synapse and label the parts.

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