

[LC 6253]

FEBRUARY 2013

Sub. Code : 6253

FIRST YEAR BPT EXAM

Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

Time : Three hours  
(180 Min)

Maximum : 100 marks

**I. Elaborate on:**

(2X20=40)

1. Define arterial blood pressure and describe any five factors that determine blood pressure. Explain the Renin Angiotensin mechanism in regulation of blood pressure.
2. What is the normal fasting blood glucose level? Describe the hormonal regulation blood. Glucose level in the body. Add a note on diabetes mellitus.

(8X5=40)

**II. Write notes on:**

1. Properties of skeletal muscle.
2. Pain pathway.
3. Anticoagulants.
4. Contraception.
5. Deglutition.
6. Glomerular filtration rate.
7. Artificial respiration.
8. Peculiarities of coronary circulation.

**III. Short answers:**

(10X2=20)

1. What is gravindex test?
2. Draw a neat diagram of a Nephron and label its parts.
3. What is haemophilia ? and what is the cause for it ?
4. What are heart sounds and what are they due to?
5. List any four functions of gastric juice.
6. What is the role of basal ganglia in voluntary movement?
7. What are the hormones involved in regulation of water balance in the body?
8. Define stroke volume and what is the normal value?
9. What is timed vital capacity and its significance?
10. What is Wallerian degeneration?

\*\*\*\*\*