

Code No: PH101

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm.D I Year Supplementary Examinations, October - 2019

HUMAN ANATOMY AND PHYSIOLOGY

Time: 3hours

Max.Marks:70

**Answer any five questions
All questions carry equal marks**

1. Write short notes on:
a) Nucleus
b) Skeletal muscle tissue
c) Movement in joints. [4+5+5]
2. Discuss the following:
a) Composition of blood
b) Clotting mechanism. [7+7]
- 3.a) With a neat sketch explain the cardiac cycle.
b) Outline the mechanisms involved in the maintenance of blood pressure. [7+7]
4. Explain the anatomy of GIT. Add a note on digestion of fats and proteins in food. [14]
5. Write short notes on:
a) Regulation of respiration
b) Structure and reflexes of spinal cord
c) Hypothalamus. [5+5+4]
- 6.a) Write in detail on Renin-Angiotensin system.
b) Discuss the physiological role of pituitary gland. [7+7]
- 7.a) Explain the hormonal regulation of menstrual cycle.
b) Write a note on contraceptive devices. [7+7]
8. Write short notes on:
a) Respiration and body heat in exercise
b) Histology of skeletal muscle cell. [7+7]

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