

**First Year Bachelor of Occupational Therapy Regular Examinations
November 2021**

Physiology

Time: 3 Hours**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay**(2x20=40)**

1. Define blood pressure. Give the normal values of Systolic BP, Diastolic BP and pulse pressure. List the mechanisms for regulation of BP. Explain in detail short term regulation of blood pressure
2. Define and classify Hypoxia. Discuss the characteristic features of various types of hypoxia. Explain the neural and chemical regulation of respiration

Short Essays**(8x5=40)**

3. Explain the mechanism of HCl secretion from parietal cell. What are the different phases of secretion of gastric juice
4. Actions of insulin
5. Classification and properties of reflex
6. Sodium reabsorption from renal tubule
7. Endometrial changes during menstrual cycle
8. Classification and functions of WBC
9. Functions of thalamus
10. Sarcotubular system of skeletal muscle

Short Notes**(10x2=20)**

11. Juxtaglomerular apparatus
12. Enterohepatic circulation
13. Functions of placenta
14. Draw and label optic pathway
15. Functions of saliva
16. stages of spermatogenesis
17. Taste buds
18. Functions of plasma proteins
19. Primary active transport
20. Name the hormones involved in calcium homeostasis. Write the briefly the actions of anyone of them
