

Sr.No.8002

Exam Code: 106701

Sub. Code : 001021

Bachelor in Physiotherapy – Ist Year (B.P.T.)

(Batch 2025-29)

(2526)

Paper-II : Human Physiology

Time allowed: 3 hrs.

Max. Marks: 100

Note: Candidates must attempt 5 questions, selecting one question from each section, each question carries 20 marks. The fifth question may be attempted from any section.

Section - A

Ques 1- Write down a brief note on:

- a. Structure and functions of Cell Membrane, Mitochondrion and Golgi Bodies.
- b. Functions of skin and body temperature regulation. (10+10)

Ques 2- Write a brief note on:

- a. Coagulation of blood.
- b. Functions of stomach and intestines. (10+10)

Section – B

Ques 3- Write a brief note on:

- a. Pacemaker tissues (Conductive system) of the heart.
- b. Events of the Cardiac Cycle. (10+10)

Ques 4- Explain in detail the exchange and transport of respiratory gases and write a note on Hypoxia. (20)

Section – C

Ques 5- Write a brief note on:

- a. Cerebellum and Basal Ganglia.
- b. Thalamus and Hypothalamus. (10+10)

Ques 6- Write a brief note on:

- a. Synapse, Synaptic transmission and its functions.
- b. Reflex Arc, types of reflexes and Pain sensation. (10+10)

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Sr.No.7952

Exam Code: 106701
Subject Code : 1021

Bachelor in Physiotherapy - 1st Year (B.P.T.)
(Batch 2023-27)
(2524)

Paper-II: Physiology

Time Allowed: 3 hrs.

Max. Marks: 100

Note: Candidates must attempt five questions, selecting one question from each Section, fifth question may be attempted from any Section and each question carries equal marks.

Section - A

Ques 1- Explain the structure and functions of skin. Describe how the skin regulates body temperature. (20)

Ques 2- Write down a brief note on:

- a. Fluid distribution and exchange.
- b. Hydrogen ion regulation within the concentration of body fluids. (10+10)

Section - B

Ques 3- a. Write in detail about the metabolism of carbohydrates.

- b. Describe the events of cardiac cycle. (10+10)

Ques 4- a. Write about the regulation of respiration.

- b. Write a note on micturition. (10+10)

Section - C

Ques 5- Explain the classification and properties of receptors. (20)

Ques 6- a. Write in detail about basal ganglia.

- b. Write a note on Autonomic Nervous system. (10+10)

Section - D

Ques 7- Write down the electrical and histological changes during muscular contraction. (20)

Ques 8- a. Explain the effect of exercise on circulatory system.

- b. Write a note on neuromuscular transmission. (10+10)

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Sr.No.8002

Exam Code: 106701
Sub. Code : 001021

**Bachelor in Physiotherapy – 1st Year (B.P.T.) (Batch 2024-28)
(2525)**

Paper – II : Human Physiology

Time allowed: 3 hrs.

Max. Marks: 100

NOTE: Candidates must attempt five questions, selecting one question from each section, each carries 20 marks: fifth question may be attempted from any section

Section-A

- Q1 Write down functions of RBC, WBC and Platelets? 20
- Q2 Discuss a) Movements of GI tract b) Functional anatomy of stomach with diagram? 20

Section-B

- ~~Q3~~ Give description about events of cardiac cycle and factors affecting cardiac output? 20
- Q4 Give detail introduction of Pituitary gland, Anatomy, parts, regulation and applied physiology related to it? 20

Section-C

- Q5 Explain pain pathway, types of pain with diagram? 20
- ~~Q6~~ Write a short note on
- a) Neuromuscular junction b) ~~Cerebellum~~ and Basal ganglia? 20

Section-D

- ~~Q7~~ Discuss structure and function of cardiac and skeletal muscles also chemical processes involved in it? 20
- Q8 Explain with diagram physiology of muscle contraction? 20

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