

**Atal Bihari Vajpayee Medical University, UP**  
**Bachelor of Physiotherapy (BPTT-101) - First semester (R)**  
**Subject code/ Title: Human Anatomy**  
**Paper code : 2211110101**

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**Time: 3 hours**

**Maximum marks: 80**

**General instructions:**

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point. No extra copy shall be provided.

**Q. 1. Long Answer Type Questions:**

**(2 x 20 = 40 marks)**

- a) What are the features of a synovial joint and describe various motions in a synovial joint.
- b) Explain the Classification of bones in detail.

**Q.2. Short Answer Type Questions:**

**(2 x 10 = 20 marks)**

- a) Explain the muscles of the anterior compartment of the forearm with diagrams
- b) Explain anatomy of the elbow joint in detail with appropriate diagrams

**Q. 3. Very Short Answer Type Questions:**

**(5 x 4 = 20 marks)**

- a) Explain the types of positions in relation to various regions.
- b) Draw a Respiratory tract with a well labelled diagram.
- c) Explain the location, features, and function of Kidney with diagrams
- d) Explain any two Brachial Plexus injuries with its mechanism.
- e) Attachments in clavicle with diagram.

*Mon. 5<sup>th</sup> Sept 2022*

**Atal Bihari Vajpayee Medical University, UP**

**Bachelor of Physiotherapy (BPT) - First semester (R)**

**Subject code/ Title:** BPT-102 (Human Physiology-I (including Applied Physiology))

**Paper code:2211110102**

**Time: 3 hours**

**Maximum marks: 80**

**General instructions:**

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point. No extra copy shall be provided.

Q. 1. Long Answer Type Questions: (2 x 20 = 40 marks)

- a) Describe the Definition, Classification, causes and Features of Shock.
- b) What's are the respiratory muscles, explain about the mechanism of respiration.

Q.2. Short Answer Type Questions: (2 x 10 = 20 marks)

- a) Draw diagram of Neuromuscular junction and explain about Neuromuscular transmission.
- b) Describe about morphology, counts and function of WBC.

Q. 3. Very Short Answer Type Questions: (5 x 4 = 20 marks)

- a) Plasma Protein
- b) Structure and function of Cell.
- c) Structure and Function of Neurone.
- d) Cardiac output
- e) Hypoxia

*Tues., 6<sup>th</sup> Sept 2022*

**Atal Bihari Vajpayee Medical University, UP**  
**Bachelor of Physiotherapy (BPT) - First semester (R)**  
**Subject code/ Title: BPT-103/BIOCHEMISTRY**  
**Paper code: 2211110103**

**Time: 3 hours**

**Maximum marks: 80**

**General instructions:**

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point. No extra copy shall be provided.

**Q. 1. Long Answer Type Questions: (2 x 20 = 40 marks)**

- a) Discuss fat-soluble vitamins along with their functions, dietary sources, daily requirements and deficiency disorders.
- b) Define carbohydrates along with their classification, functions, and metabolism.

**Q.2. Short Answer Type Questions: (2 x 10 = 20 marks)**

- a) Discuss the structure of connective tissue proteins and associated disorders.
- b) Discuss the urea cycle with its significance.

**Q. 3. Write short notes on: (5 x 4 = 20 marks)**

- a) Essential fatty acids.
- b) RDA and SDA.
- c) Essential amino acids.
- d) Factors affecting enzyme action.
- e) Renal function test.

*Wed. 7<sup>th</sup> Sept 2022*

**Atal Bihari Vajpayee Medical University, UP**  
**Bachelor of Physiotherapy (BPT) - First semester (R )**  
**Subject code/ Title: BPT-104/Biophysics**  
**Paper code: 2211110104**

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**Time: 3 hours**

**Maximum marks: 80**

**General instructions:**

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point. No extra copy shall be provided.

**Q. 1. Long Answer Type Questions:**

**(2 x 20 = 40 marks)**

- a) What is LASER. Describe the types, theory, mechanism of production and uses of Laser.
- b) Write the various sources of non- ionising radiation, properties. Describe a short note on UVR.

**Q.2. Short Answer Type Questions:**

**(2 x 10 = 20 marks)**

- a) Describe the effects of microwave currents on various body systems.
- b) Define Impedance. Write the different types of impedances and its importance .

**Q. 3. Very Short Answer Type Questions:**

**(5 x 4 = 20 marks)**

- a) Hyperthermia
- b) Photo immunology
- c) Action potential
- d) Photobiological phenomenon
- e) Resting membrane potential

*Thurs. 8<sup>th</sup> Sep. 2022*

**Atal Bihari Vajpayee Medical University, UP**  
**Bachelor of Physiotherapy (BPT) - First semester (R )**  
**Subject code/ Title: BPT-105/Health Psychology**  
**Paper code: 2211110105**

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**Time: 3 hours**

**Maximum marks: 80**

**General instructions:**

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point. No extra copy shall be provided.

**Q. 1. Long Answer Type Questions: (2 x 20 = 40 marks)**

- a) Explain principles of Perception and factors affecting it.
- b) Discuss theories of intelligence.

**Q.2. Short Answer Type Questions: (2 x 10 = 20 marks)**

- a) Discuss "Nature v/s Nurture controversy".
- b) Maslow's theory of need hierarchy.

**Q. 3. Write short notes on: (5 x 4 = 20 marks)**

- a) Fear of missing out (FOMO)
- b) Reality denial.
- c) Stress management.
- d) Factors affecting learning.
- e) Illusion.

*Fri., 9<sup>th</sup> Feb 2022*