

**Atal Bihari Vajpayee Medical University, UP.**  
**Batchelor in Physiotherapy (BPT) - First year**  
**Subject: PHYSIOLOGY**  
**Paper code 2111110102**

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**Time: 3 hours**

**Total 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. Write in detail about (2 x 20 = 40 marks)

- a) Describe the function of Thyroxine (T4) hormone.  
Explain the features of Hypothyroidism in adult and child.
- b) Define Glomerular Filtration Rate. Describe the factors affecting it.

Q. 2. Write short answers on: (2 x 10 = 20 marks)

- a) Draw a labelled diagram of Neuro muscular junction.  
Describe it in brief
- b) Define the various lung volumes.  
Describe how the lung volumes are measured.

Q. 3. Differentiate between: (5 x 4 = 20 marks)

- a) Myopia and Hypermetropia
- b) UMN lesion and LMN lesion
- c) Isotonic and Isometric muscle contraction
- d) Bicuspid valves and Tricuspid valves
- e) Pre hepatic and Post hepatic jaundice

*Total time allotted 3 hours*

*19 Apr 2022*