

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH  
BACHELOR OF PHYSIOTHERAPY (B.P.T)  
SECOND SEMESTER EXAMINATION - OCT 2024

Time: 3 Hours

Max Marks: 80 Marks

HUMAN ANATOMY II (INCLUDING APPLIED ANATOMY)

PAPER CODE: 2432110106

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe in detail about the Central & Peripheral nervous system.
- Q.2 Describe about the osteology of femur, tibia, fibula, patella with diagrammatic representation.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain the anatomy & function of the Basal Ganglia.
- Q.4 ~~Describe the anatomical structure of the wrist joint & its associated movements.~~
- Q.4 Describe the structure and function of the cerebellum.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Structure & function of meninges
- Q.6 Location, size, shape and function of Gall bladder.
- Q.7 ~~Scapular Dyskinesia~~
- Q.7 Pelvic Floor Muscles
- Q.8 Arches of Foot
- Q.9 Types of Joints.

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**HUMAN PHYSIOLOGY II (INCLUDING APPLIED PHYSIOLOGY)**

**PAPER CODE: 2432110107**

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General instructions:

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- Be to the point.

**LONG ESSAY QUESTIONS**

**2 X 20 = 40 Marks**

- Q.1** Describe the physiology of the Gastrointestinal (GI) system, focusing on digestion and absorption including the roles of different organs involved.
- Q.2** Explain about the structure of the intestine along with its composition, function, regulation of secretion and intestinal motility.

**SHORT NOTE QUESTIONS**

**2 X 10 = 20 Marks**

- Q.3** Describe the major endocrine glands & their hormones in detail.
- Q.4** Explain about the regulation of secretion of Insulin and Glucagon along with glucose metabolism.

**SHORT ANSWER QUESTIONS**

**5 X 4 = 20 Marks**

- Q.5** Types of Diabetes mellitus
- Q.6** Types of Vitamins & its deficiencies.
- Q.7** Physiological basis of Peptic Ulcer.
- Q.8** Explain Pineal Gland.
- Q.9** What is Hypothyroidism?
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BIOMECHANICS AND KINESIOLOGY I

PAPER CODE: 2432110108

General instructions:

- All questions are compulsory.
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- Please write the correct paper code.
- Be to the point.

**LONG ESSAY QUESTIONS**

2 X 20 = 40 Marks

- Q.1 Explain the role of muscle mechanics in movement, focusing on the force- velocity and length - tension relationships.
- Q.2 Explain the principles of lever systems in the human body. Describe the different classes of levers with examples, and discuss how these principles apply to common movements such as lifting, running and jumping.

**SHORT NOTE QUESTIONS**

2 X 10 = 20 Marks

- Q.3 Explain about the Newton's Laws of Motion & their relevance to human movement
- Q.4 Explain about the changes occur in joint structure and function with disease, Injury, Immobilization, Exercise & Overuse.

**SHORT ANSWER QUESTIONS**

5 X 4 = 20 Marks

- Q.5 Anatomical pulley with examples.
- Q.6 Spring in Series and Parallel
- Q.7 Explain Hooke's Law.
- Q.8 Types of Muscle contraction.
- Q.9 Static and Dynamic Equilibrium

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YOGA BASIC THEORY SCIENCES & TECHNIQUES

PAPER CODE: 2432110109

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- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Analyse the role of Relaxation Techniques. What are the physiological and psychological benefits of Shavasana and Yoga Nidra, and how does they contribute to overall well-being.
- Q.2 Analyse the role of Meditative Postures. What are the physiological and psychological benefits of Siddhasana, Padmasana, Samasana and Swastikasana and how does they contribute to overall well-being.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Describe in detail about the Disease prevention and promotion of Positive health through Yoga.
- Q.4 Describe in detail about the Physiological effects of Shatkriyas.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 What is Yogic Kriyas?
- Q.6 Benefits of Vrikshasana.
- Q.7 Physiological benefits of Asanas.
- Q.8 Explain Kapalabhati.
- Q.9 Explain Simhasana.
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