

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH
BACHELOR OF PHYSIOTHERAPY (B.P.T)
FIRST SEMESTER EXAMINATION - FEB 2026

Time: 3 Hours

Max Marks: 80 Marks

Human Anatomy-I (Including Applied Anatomy)

PAPER CODE: 2631110101

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 about the position, shape, size, function, blood supply and nerve supply of the thyroid glands.
- Q.2** Describe about the osteology of Clavicles, Humerus, Radius, Ulna with diagrammatic representation.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Explain about position, parts, relations, blood supply and nerve supply of Lungs.
- Q.4** How to differentiate anatomically male and female reproductive system?

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** Applied anatomy of esophagus
- Q.6** Location, size, shape and features of spleen.
- Q.7** What is rotator cuff injuries?
- Q.8** What does mean arches of hand?
- Q.9** Classification of bones.
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Human Physiology -I (Including Applied Physiology)

PAPER CODE: 2631110102

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1** Describe about the Classification, Morphology, functions and count of WBC.
- Q.2** Describe about the Structure and functions of neurons along with classification, Properties and impulse transmission of nerve fibre.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Explain about classification, causes and features of shock.
- Q.4** Write functions of respiratory system and respiratory muscles.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** Applied physiology of hypoxia.
- Q.6** Structure and function of cardiac muscles.
- Q.7** What is neuroglia?
- Q.8** What does mean bone marrow transplant?
- Q.9** Structure and functions of cell.
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Time: 3 Hours

Max Marks: 80 Marks

BIOCHEMISTRY

PAPER CODE: 2631110103

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1** Describe the reactions of Kreb's Cycle and its regulation? Add a note on Glycolysis.
- Q.2** Describe the sources, biochemical functions, normal requirement and deficiency manifestations of vitamin-D.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Write about digestion and absorption of Proteins
- Q.4** Write a brief note on the process of Muscle Contraction and Energy for Muscle Contraction

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** Cell Membrane Structure And Function
- Q.6** Amino Acids
- Q.7** Clinical Importance of Enzymes
- Q.8** Carbohydrates
- Q.9** Balance Diet
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Time: 3 Hours

Max Marks: 80 Marks

BIOPHYSICS
PAPER CODE: 2631110104

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1** Describe the different sources of Non-Ionising and Optical radiations. Enumerate their physical properties.
- Q.2** Describe the thermal and non-thermal effects of radiofrequency and microwave radiation.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Describe the ionic basis of resting membrane potential and propagation of electrical signals on human body.
- Q.4** Describe the principles, theory and application of Thermography.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** Explain Photo immunology.
- Q.6** Explain Biomagnetism.
- Q.7** What is Hodgkin-Huxley model?
- Q.8** What does mean biphasic and compound action potential?
- Q.9** Explain action potential on ionic basis.
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Time: 3 Hours

Max Marks: 80 Marks

HEALTH PSYCHOLOGY
PAPER CODE: 2631110105

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1** Describe about the motivation cycle and classification of motives.
- Q.2** Describe about the Theories of emotion along with three levels of analysis of emotion.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Explain about principles of counselling and Types of counselling.
- Q.4** What is the creative thinking, steps in creative thinking and traits of creative people?

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** Explain digital distraction.
- Q.6** Explain stress management.
- Q.7** What are leadership and different types of leaders?
- Q.8** What does mean defense mechanisms?
- Q.9** What is Incidental/Intentional learning?
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