

ATAI BIHARI VAIPAVET MEDICAL UNIVERSITY, UTTAR PRADESH
BACHELOR OF PHYSIOTHERAPY (B.P.T.)
I SEMESTER EXAMINATION

Time: 3 Hours

Max Marks: 80 Marks

Human Anatomy-I (Including Applied Anatomy)

PAPER CODE: 2331110101

General Instructions

- All Questions are Compulsory.
- Explain with diagrams where necessary.
- The number on Right Indicates full marks.
- Please write the Correct paper code.
- Be to the point. No Extra copy should be provided.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe the brachial plexus under the following headings, roots, trunks, divisions and cords. What do you mean by Erb's point? Add a note on Klumpke's paralysis.
- Q.2 Describe the heart under the following headings Position, Coverings External and Internal features, blood supply of the heart and nerve supply. Add a note on its applied Anatomy.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Name the major openings and the structures passing through the diaphragm.
- Q.4 Definition classification of fibrous and Cartilagenous joints.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Write notes on pituitary gland.
- Q.6 Write notes on Anatomical Snuff Box.
- Q.7 Lymphatic Drainage of Mammary Gland.
- Q.8 Write about Type of Bones with Examples.
- Q.9 Write about special features of clavicle.

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1ST SEMESTER EXAMINATION

Time: 3 Hours

Max Marks: 80 Marks

Human Physiology - I (Including Applied Physiology)

PAPER CODE: 2331110102

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Discuss the mechanism of respiration. Write a short note on hypoxia.
Q.2 Define shock. What are the types, causes, and features of shock?

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Write short note on neuromuscular junction with a neat and labelled diagram.
Q.4 Write short note on *cardiovascular changes* during exercise.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Properties of nerve
Q.6 Strength duration curve
Q.7 Function of blood
Q.8 Enumerate blood coagulating factors
Q.9 Oxygen debt

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1st SEMESTER EXAMINATION

Time: 3 Hours

Max Marks: 80 Marks

BIOCHEMISTRY

PAPER CODE: 2331110103

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Classify Vitamins. Write about Vitamin 'A'- dietary sources, daily requirement, functions and deficiency disorders.
- Q.2 Define and classify Proteins. Write about Urea cycle with its significance.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Define and classify carbohydrates. Draw TCA cycle with its significance.
- Q.4 Define and classify Enzymes with a note on Isoenzyme.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Collagen
- Q.6 Basal metabolic rate
- Q.7 Draw Beta Oxidation pathway
- Q.8 Specific dynamic action
- Q.9 Diabetes mellitus
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1st SEMESTER EXAMINATION

Time: 3 Hours

Max Marks: 80 Marks

BIOPHYSICS

PAPER CODE: 2331110104

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1** Explain about effect of Electricity and Magnetism at the Cellular Level? Add a note on Non-Ionizing radiation.
- Q.2** Explain Interaction Mechanism of Radiofrequency and Microwave Radiation with Biological system.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Principle and Theory of Thermography
- Q.4** Explain Photoactivation of Biological System

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** Thermal and Non thermal effect
- Q.6** Laser Theory
- Q.7** Action Potential
- Q.8** Measurement of fluence from Optical sources
- Q.9** Electrical Impedance and Biological Impedance
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Ist SEMESTER EXAMINATION

Time: 3 Hours

Max Marks: 80 Marks

HEALTH PSYCHOLOGY
PAPER CODE: 2331110105

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.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Define personality. Explain the various techniques used for assessment of Personality in details.
- Q.2 Define heredity and environment? Explain in detail the role of heredity and environment in an individual for Psychological Development.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 What about the importance and knowledge of psychology in physiotherapy
- Q.4 Define Perception. Explain the Principles of perception

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Illusion and hallucination
- Q.6 Principles of Counselling
- Q.7 True Knowledge and inaccurate Knowledge
- Q.8 Conflict
- Q.9 Abraham Maslow's Theory
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