

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH

BACHELOR OF PHYSIOTHERAPY (B.P.T)

FIRST SEMESTER EXAMINATION - APRIL 2024

Time: 3 hours

Max Marks: 80 Marks

Human Anatomy (Including Applied Anatomy)

PAPER CODE 2431110101

General Instructions.

- All questions are compulsory.
- Explain with diagram where Required.
- The number on Right indicate full MARKS.
- Please write correct paper code.
- Be to the point.

LONG ESSAY QUESTION

2X20=40 MARKS

Q1 Describe about position size function Bld supply nerve supply of pituitary gland.

Q2 Define and classify joints with structure and function Bld supply nerve supply and diagram of shoulder joint.

SHORT NOTE QUESTION

2X10=20 MARKS.

Q3. Explain about origin insertion nerve supply and action of Intercostal mcls.

Q4. Explain about muscles nerves Bld vessels of Back of Forearm.

SHORT ANSWER QUESTION:

5X4=20 MARKS

Q5. Define and Explain function of Superficial and deep fascia.

Q6. Explain about Connective tissue.

Q7. Location Size shape and function of Liver.

Q8. Applied Anatomy of Trachea.

Q9. What is Brachial plexus Injury.

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Time: 3 Hours

Max Marks: 80 Marks

Human Physiology -I (Including Applied Physiology)

PAPER CODE: 2431110102

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 Composition, formation and functions of blood.
- Q.2 Define and classify the Nerve injury along with degeneration and regeneration of nerve fibers.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about normal values, determinants, Peripheral resistance and regulation of arterial blood pressure.
- Q.4 Explain about the regulation of respiration.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Define Body fluids with its composition.
- Q.6 Explain about blood Groups.
- Q.7 Explain about peripheral nervous system.
- Q.8 What is cyanosis and its types?
- Q.9 What are phases of cardiac cycle?
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BIOCHEMISTRY
PAPER CODE: 2431110103

General instructions:

- All questions are compulsory.
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- 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 definition, classification and general functions carbohydrates.
Q.2 Define and classify with examples of the enzymes.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about classification and functions along with dietary source and daily requirement of Vitamins
Q.4 Explain about the structure and functions of the cell membrane.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Define and explain with examples balanced diet.
Q.6 Explain about Liver function tests.
Q.7 Explain about urea cycle.
Q.8 What is essential and nonessential amino acids?
Q.9 What are vitamin deficiency disorders (any five)?
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Max Marks: 80 Marks

BIOPHYSICS

PAPER CODE: 2431110104

General instructions:

- All questions are compulsory
- Explain with diagrams where required
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- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe about the action potential- ionic basis, gating kinetics and physiopharmacology of different ion channels.
- Q.2 Explain electricity and Magnetism at the Cellular level along with different sources of non-ionizing radiation-their physical properties.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about optical properties of tissues along with interaction of laser radiation with tissues.
- Q.4 Explain about the electromagnetic, acoustic and mechanical energies to produce biophysical effects at the cellular level.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Explain various types of optical radiations.
- Q.6 Explain about beneficial effects of sun and artificial light energy.
- Q.7 Explain about lasers in dermatology, oncology and cell biology.
- Q.8 What is microwave radiation?
- Q.9 What are electrical Impedance and biological Impedance?
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Time: 3 Hours

Max Marks: 80 Marks

HEALTH PSYCHOLOGY

PAPER CODE: 2431110105

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 Theories and Assessment of Intelligence .
- Q.2 Explain Theories of Learning and Factors affecting Learning

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about pure psychology and applied psychology.
- Q.4 Explain about the types of attention and determinants of attention.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Define Frustration and Sources of Frustration .
- Q.6 What is attitude and development of Attitude .
- Q.7 Explain about Psychotherapy .
- Q.8 What is dilemma and Indecision .
- Q.9 What are guilt and Shame .