BPTH 2026 (CBELP) SUMMER

BPT_HUMAN ANATOMY_FIRST BPT_NA_SECTION A & B_1

HUMAN ANATOMY **51101**

Time : 3 Hrs
Max. Marks : 80.00
Version
Question Booklet Sr. No.

1) Use black ball point pen only 2) Do not write anything on the blank portion of the paper. If written anything such type of act will be considered as an attempt to resort to unfair means. 3) All questions are compulsory. 4) The number to the right indicates full marks. 5) Draw diagrams wherever necessary 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done. 7) Use a common answerbook for all sections.

Section A (50 Marks)

Que1.Short Answer Questions (Solve any 5 Out of 6) :- **(5x3=15.00)**

a. Enlist the branches of the External Carotid artery

b. Draw a well labeled diagram of the microscopic structure of Skin.

c. Enlist the Differences between Small and Large Intestine

d. Draw and label the Posterior relations of the Right Kidney

e. What is Sesamoid bone. Give any two examples.

f. Name the different arteries suplying blood to the Stomach

Que2.Short Answer Questions (Solve any 5 Out of 6) :- **(5x7=35.00)**

a. Primary and secondary curvatures of the spine

b. Superior Mediastinum: Boundaries and Contents

c. Name the Muscles of mastication. Describe the temporalis muscle.

d. Describe Popliteal fossa: Boundaries and contents.

e. Describe Great Saphenous vein: Formation, Course and Tributaries.

f. Specify the movements of the Radioulnar joint.

Section B (30 Marks)

Que3.Long Answer Questions(Solve any 1 Out of 2) :- **(1x15=15.00)**

a. Describe the **Ulnar Nerve** under the following heads

Formation and Root value	(3)
Course and distribution	(3)
Branches	(6)
Applied anatomy	(3)

b. Describe the **Hip Joint** under the following heads

Classification and articular surface	(3)
Ligaments	(4)
Movements and muscles producing them	(6)
Applied anatomy	(2)

Que4.Long Answer Questions (Solve any 1 Out of 2) :- **(1x15=15.00)**

a. Describe the **medial plantar arch** under following heads

components of the arch	(6)
factors responsible for maintaining the arch	(6)
Applied aspect	(3)

b. Describe the **internal capsule** under following heads Parts

Tracts passing through	(5)
Blood supply	(2)
Applied aspects	(2)

BPTH 2026 (CBELP) SUMMER

BPT_HUMAN PHYSIOLOGY_FIRST BPT_NA_SECTION A & B_1

HUMAN PHYSIOLOGY **51102**

Time : 3 Hrs

Max. Marks : 80.00

Version

Question Booklet Sr. No.

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Section A (50 Marks) (5x3=15.00)

Que1. Short Answer Questions (Solve any 5 Out of 6) :-

a. Neutrophil

b. Enumerate heat gain mechanisms in body. Explain any one.

c. Draw a well labelled diagram of ECG

d. Enumerate functions of saliva

e. Facilitated Diffusion

f. Functions of middle ear

Que2. Short Answer Questions (Solve any 5 Out of 6) :- **(5x7=35.00)**

a. Define and explain O2 Debt

b. Explain transmission across neuro-muscular junction. Add a note on Myasthenia Gravis.

c. Describe the follicular phase of menstrual cycle.

d. Explain the properties of nerve fibre

e. Define GFR. Explain factors affecting GFR.

f. Functions of Thyroid hormone. Add a note on Cretinism.

Section B (30 Marks)

Que3. Long Answer Questions(Solve any 1 Out of 2) :- **(1x15=15.00)**

a. Define Blood pressure. Mention its normal values Describe in detail the short term of regulation of Blood Pressure (1+ 2 + 12)

b. Describe in detail neural regulation of respiration. Add a note on respiratory changes during moderate exercise. (11+ 4)

Que4. Long Answer Questions (Solve any 1 Out of 2) :- **(1x15=15.00)**

a. Enumerate the Ascending Tracts. Describe the Spinothalamic pathway in detail (4 + 11)

b. Define and classify Receptors. Describe in detail properties of receptors (2 + 3 + 10)

BPTH 2026 (CBELP) SUMMER

BPT_PHYSIOTHERAPY-I (ELECTROTHERAPY-I)_FIRST BPT_Paper-I_SECTION A & B_1

PHYSIOTHERAPY -PAPER-II (KINESIOTHERAPY I) **51104**

Time : 3 Hrs

Max. Marks 80.00

Version

Question Booklet Sr. No. _____

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Section A (50 Marks) (5x3=15.00)

Que1.Short Answer Questions (Solve any 5 Out of 6) :-

a. Enumerate the uses of fuse.

b. Write the three types of therapeutic part of the ultraviolet spectrum, along with their corresponding wavelength ranges.

c. State the standard wiring colour coding in a three-pin power plug.

d. Enumerate the types of capacitors

e. Write the functions of a static transformer.

f. Define an electric shock

Que2.Short Answer Questions (Solve any 5 Out of 6) :- (5x7=35.00)

a. Define Ohm's law. Describe the resistances in series and the resistances in parallel.

b. Differentiate between luminous and non-luminous types of therapeutic Infrared

c. Write the construction and types of a Rheostat.

d. Write about the thermal and non-thermal effects of therapeutic ultrasound.

e. Explain the Lewis-Hunting reaction in cryotherapy with a help of a diagram.

f. What are thermionic valves? Describe the construction of a diode and a triode valve.

Section B (30 Marks)

Que3.Long Answer Questions(Solve any 1 Out of 2) :- (1x15=15.00)

a. Compare and contrast the characteristics of sound waves and electromagnetic waves. 5 Marks
What is the reverse piezoelectric effect? 3 Marks
Explain the construction and production of therapeutic ultrasound waves with a neat labelled diagram. 7 Marks.

b Describe the construction of Ultraviolet Radiation (UVR) lamp. 5 Marks
Describe the production of UVR. 7 Marks
Add a note on Tridymite formation 3 Marks)

Que4.Long Answer Questions (Solve any 1 Out of 2) :- (1x15=15.00)

a. Describe the production of Short Wave Diathermy (SWD) (7 Marks)
Draw a panel diagram of SWD. (5 Marks)
Describe the testing of SWD. (3 Marks)

b. Explain in detail the construction of the paraffin wax bath unit (5 Marks)
Write down the various methods of application of the paraffin wax bath. (5 Marks)
Add a note on its contraindications. (5 Marks)

BPTH 26 (CBELP) SUMMER

BPT_PHYSIOTHERAPY -II (KINESIOTHERAPY-I)_FIRST BPT_Paper-II_SECTION A & B_1

Time: 3 Hrs
Max. Marks : 80.00
Version :
Question Booklet Sr. No.:

51105

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Section A (50 Marks)

Que1.Short Answer Questions (Solve any 5 Out of 6) :- **(5x3=15.00)**

a. Define passive movements and write classification of the passive movements.

b. Describe three effects of relaxation.

c. Describe any three contraindications of Bhujangasana.

d. Define cool down exercises and give any two examples of it.

e. Enumerate any three causes of limitations of joint mobility.

f. Enumerate any three contraindications of massage

Que2.Short Answer Questions (Solve any 5 Out of 6) :- **(5x7=35.00)**

a. Write maneuvers included in petrissage and explain in detail the effects of Petrissage.

b. Describe in detail Laura Mitchell relaxation technique.

c. Describe physiology of aerobic exercises.

d. Describe physiological effects of yoga.

e. Explain in detail about springs with respect to the principles,various ways of using springs and their uses. 4M
Write any three therapeutic gymnasium equipments which can be used for applying resistance.3M

f. Describe Shoulder wheel with its principle and uses.

Section B (30 Marks)

Que3.Long Answer Questions(Solve any 1 Out of 2) :- **(1x15=15.00)**

a. i) Discuss principles of Suspension therapy (8 MKS)
ii) Describe types of Suspension therapy. (3 MKS)
iii) Explain in detail effects of Suspension therapy. (4 MKS)

b. i) Define active movements. (3 MKS)
ii) Describe techniques of any two types of active movements. (8 MKS)
iii) Describe effects and uses of active movements.(4MKS)

Que4.Long Answer Questions (Solve any 1 Out of 2) :- **(1x15=15.00)**

a) i) Define Goniometry. (3 MKS)
ii) Describe uses of goniometry (4 Mks)
iii) Discuss in detail Principles of Goniometry and explain the technique for measuring knee Range of Motion using these principles (8 MKS)

b. i) Define joint mobility. Mention in brief about contraindications of mobility. (3 MKS)
ii) Discuss various techniques for increasing mobility.(4 MKS)
iii) Describe mobility program to increase ROM of shoulder joint. (8 MKS)

BPTH 2026 (CBELP) SUMMER

BPT_KINESIOLOGY & MOVEMENT SCIENCE-I_FIRST BPT_Paper-I_SECTION A & B_1

KINESIOLOGY & MOVEMENT SCIENCE -PAPER I **51103**

Time : 3 Hrs

Max. Marks 80.00

Version

Question Booklet Sr. No. _____

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Section A (50 Marks)

(5x3=15.00)

Que1.Short Answer Questions (Solve any 5 Out of 6) :-

a. Enumerate Types of Muscles.

b. Define Gravity.

c. Enumerate Joint Categories referring to Degree of Movement.

d. Define Anatomical Pulleys.

e. Define Inertia.

f. Define Velocity, Acceleration and Momentum

Que2.Short Answer Questions 2(Solve any 5 Out of 6) :- (5x7=35.00)

a. Explain foundational concepts of Friction and Shear forces.

b. Write in detail about the Classification of Skeletal Muscle fibre

c. Explain Open Chain and Closed Chain Kinematics.

d. Explain Active Insufficiency with appropriate examples.

e. Explain in detail about Joint Play, Loose/ Open Packed position and Close Packed position.

f. Classify Levers. Explain Anatomical Levers.

Section B (30 Marks)

Que3.Long Answer Questions(Solve any 1 Out of 2) :- (1x15=15.00)

a. Explain in detail the kinetic and kinematics of open chain movement of Shoulder complex in frontal plane. Add a note on Scapulo Humeral Rhythm.

b. Discuss fluid mechanics related to Hydrotherapy.

Que4.Long Answer Questions 4(Solve any 1 Out of 2) :- (1x15=15.00)

a. Define Starting/ Fundamental Position. Enumerate different Starting Positions. Explain any one in detail with appropriate diagram.

b. Explain the Kinetics and Kinematics of Hip Joint with respect to movements in sagital plane