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

PHYSIOTHERAPY-PAPER-I (ELECTROTHERAPY I)
Time : 3 Hrs
Max. Marks : 80.00
Version :
Question Booklet Sr. No. :

51105

Section A (50 Marks) SAQ

Que1.Short Answer Questions (Solve any 5 out of 6) (5x3=15.00)

a.

Enumerate any 3 uses of Swiss ball.

b.

Enumerate 3 uses of resisted exercises.

c.

Enumerate contraindications of Trikonasana.

d.

Enumerate uses of Petrissage.

e.

Enumerate effects of warm up exercises..

f.

Define Relaxation & enumerate different techniques.

Que2.Short Answer Questions (Solve any 5 out of 6) (5x7=35.00)

a.

Define Free Exercises. Write the effects and uses of free exercises.

b.

Vajrasana

Describe ~~Paschimottasan~~ and mention its physiological effects.

c.

Describe classification of various soft tissue maneuvers and discuss effects and uses for the same.

d.

Discuss 3 asanas for improving the flexibility of the spine.

e.

Write principles of relaxation. Describe and compare the effects and uses of different techniques.

f.

Discuss value of Group exercises.

Section B (30 Marks) LAQ

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

a.

Describe the causes of limitation of joint mobility. Discuss principles of passive movements. Describe indications and contraindications for passive movements. (4+5+6)

b.

Describe different types of Goniometers. Write merits and demerits of Goniometry. Describe technique to measure range of motion for Shoulder Abduction. (5+6+4)

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

a.

Define different types of physiological movements. Explain principle and technique of Assisted exercises. Discuss effect and uses of Assisted exercises. (5+5+5)

b.

Explain classification of types of suspension. Describe parts of Suspension Apparatus. Discuss the application of suspension for the Knee joint. (3+7+5)

thephysiomedic

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

PHYSIOTHERAPY -PAPER-II (KINESIOTHERAPY I)
Time : 3 Hrs
Max. Marks : 80.00
Version :
Question Booklet Sr. No. :

51104

Section A (50 Marks) SAQ

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

a.

Define Law of Grothus and Latent heat.

b.

Define shock and enumerate types of shock.

c.

State the property of thermionic emission.

d.

State Cosine law with the help of a diagram..

e.

Enumerate modes of heat transfer.

f.

Enumerate methods to reduce skin resistance.

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

a.

Enumerate types of LASER. Discuss properties of LASER in detail.

b.

What are transformers?Explain in details types of transformers.

c.

Describe different types of TENS with neat labeled diagram for each type.

d.

Describe construction and production of Kromayer lamp.

e.

Describe production and construction of Luminous and Non-luminous Infra Red Radiation Lamp.

f.

Explain production of Interferential Current Therapy and draw panel diagram of IFT.

Section B (30 Marks) LAQ

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

a.

Define Cryotherapy. Describe the different methods of application of cryotherapy. Describe indications and contraindications for the same. (2+6+7)

b.

Draw circuit diagram of Short Wave Diathermy. Describe production of SWD. Explain different types of electrodes used. (4+6+5)

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

a.

Describe production of Ultrasound. Draw panel diagram of Ultrasound machine. Explain methods of testing of Ultrasound.. (6+5+4)

b.

Explain in detail physiological effects of Contrast bath and its technique of application. Write advantages and disadvantages of the same. (6+3+6)

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

KINESIOLOGY & MOVEMENT SCIENCE -PAPER I
Time : 3 Hrs
Max. Marks : 80.00
Version :
Question Booklet Sr. No. :

51103

Section A (50 Marks)

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

a.

Explain the role of synergist muscle in the movement

b.

Enumerate various Starting / Fundamental positions.

c.

Describe Buoyancy.

d.

Define Angle of Pull.

e.

Explain factors affecting Stability.

f.

Define Kinematics

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

a.

Define Convex-Concave rule. Describe how it works in human body with appropriate examples.

b.

Discuss the Kinematics of Hip Joint during open chain Flexion.

c.

Describe Active and Passive insufficiency with examples.

d.

Define Equllibrium. Explain the types of Equilibrium with examples in human body.

e.

Define various Axes and Planes in the human body with examples of each.

f.

Explain different types of Muscle Contractions with appropriate examples.

Section B (30 Marks)

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

a.

Describe three types of levers with appropriate examples in human body.

(5+5+5=15 Marks)

b.

Describe 'Standing' as a starting position with its effect and uses. Write a note on any two derived positions of standing.

(9+6=15 Marks)

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

a.

Discuss Newton's laws of motion with appropriate examples in human body. Add a note on Anatomical Pulley
(12+3=15 Marks)

b.

Explain the Kinematics and Kinetics of Shoulder joint Abduction.

(7+8=15 Marks)

BPT_HUMAN ANATOMY_FIRST BPT_N.A._SECTION A & B_1

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

51101

Section A (50 Marks) SAC

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

a.

Enumerate supports of uterus

b.

Differences between small and large intestine

c.

Popliteus muscle

d.

Enumerate structures forming boundaries of cubital fossa and enumerate its contents

e.

Enumerate the branches of external carotid artery

f.

Classify epithelium

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

a.

Describe interior of the Right atrium

b.

Describe pleura with its nerve supply and add a note on its applied anatomy.

c.

Inguinal canal

d.

Trapezius muscle

e.

Describe and classify synovial joints .

f.

Describe gross anatomy of thyroid gland and add a note on clinical anatomy

Section B (30 Marks) LAQ

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

a.

Describe Gluteus maximus muscle under the following heads

i) Attachments with a special note on Iliotibial tract (4)

ii) Actions (3)

iii) Nerve supply (2)

iv) Structures under cover of gluteus maximus (6)

b.

Describe Shoulder joint under following heads

i)Type and articular surfaces (2)

ii) Fibrous capsule and ligaments (3)

iii) Movements and muscles producing movements (6)

iv) Applied anatomy (4)

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

a.

Describe Spinal cord under following heads

i)External features (2)

ii) Structure (2)

iii) Coverings (3)

iv) Enumerate tracts passing though it and write functions of each tract (5)

v) Applied Anatomy(3)

b.

Describe Cerebellum under following heads

i) External features (2)

ii)Cerebellar nuclei (3)

iii)Cerebellar peduncles and connections (4)

iv) Functions (3)

v)Clinical anatomy(3)

BPT_HUMAN PHYSIOLOGY_FIRST BPT_N.A._SECTION A & B_1

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

51102

Section A (50 Marks) SAQ

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

a.

Enumerate the heat loss mechanisms in the body.Explain any one in detail.(1 + 2 marks)

b.

Describe in short the Optic pathway of vision.

c.

Define Action potential.Draw a neat labeled diagram of action potential in a nerve fibre.(1 + 2 marks)

d.

Describe the functions of Liver.

e.

Describe the clinical features, causes and treatment of Myxoedema.

f.

Explain positive feedback mechanism with the help of an example.

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

a.

Define Hemostasis. Describe the Intrinsic and Extrinsic pathways for Coagulation. (1 + 3 + 3 marks)

b.

Describe transmission across neuromuscular junction. Add a note on Myasthenia Gravis. (4 + 3 marks)

c.

Describe the Micturition reflex and its control. Add a note on Automatic bladder. (5 + 2 marks)

d.

Describe the cardiovascular changes during moderate isotonic exercise.

e.

Describe the events in Ventricular diastole.

f.

Describe the composition and functions of Surfactant. (3 + 4 marks)

Section B (30 Marks) LAQ

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

a.

Define Blood Pressure. Mention its normal values.Enumerate and Describe short term regulatory mechanisms of blood pressure.(2+ 2 + 2 + 9 marks)

b.

Enumerate the ascending tracts. Describe in detail the pathway for pain. Add a note on referred pain. (3 + 9 + 3 marks)

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

a.

Describe in detail the transport of oxygen in the body.Explain the Oxygen Haemoglobin dissociation curve with a neat labeled diagram.(7 + 5 + 3 marks)

b.

Define and classify Reflexes. Describe the properties of Reflexes in details. (2 + 4 + 9 marks)