SECOND BPTH (2012) Examination, Summer (Phase - III All Other Remaining UG/PG Courses) - 2020
KINESIOLOGY

otal Duration : Section A + B = 3 Hours | Total Marks : 80

SECTION - A & SECTION - B

nstructions :
1) *Use **blue/black** ball point pen only.*
2) ***Do not** write anything on the **blank portion of the question** 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 answer book for all sections.*

SECTION - "A" SAQ **(50 Marks)**

Short answer question (**any five** out of six) : **[5 × 3 = 15]**

a) Torque.

b) Q angle.

c) Motor Unit.

d) Concave- convex rule.

e) Describe intrinsic plus and minus position.

f) Metatarsal break.

Short answer question (**any five** out of six): **[5 × 7 = 35]**

a) Knee Extensor Mechanism.

b) Lumbopelvic rhythm.

c) Kinematics of Thorax.

d) Discuss kinetics & kinematics of TM Joint.

e) Describe structure and function of IV disc.

f) Dynamic stabilizers of shoulder.

SECTION - "B" LAQ **(30 Marks)**

Long answer questions (**any one** out of two) : **[1 × 15 = 15]**

a) Write in detail about biomechanics of hip joint with reference to kinematics, kinetics and unilateral stance. **(5 + 5 + 5)**

b) Discuss in detail kinetics and kinematics of gait cycle. **(8 + 7)**

Long answer questions (**any one** out of two) : **[1 × 15 = 15]**

a) Discuss in detail kinetics and kinematics of elbow joint. **(7 + 8)**

b) Describe biomechanics of cervical spine with reference to articulation, kinematics and ligaments. **(5 + 5 + 5)**



[Total No. of Pages : 2

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Second BPTH (2012) Examination, Summer (Phase - III All Other Remaining UG/PG Courses) - 2020

PSYCHIATRY (Including Psychology)

Total Duration : 2 Hours

Total Marks : 40

Instructions : 1) *Use **blue/black** ball point pen only.*
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7) *Use a common answer book for all sections.*

1. Short answer question (**any five** out of six) : **[5 × 3 = 15]**

a) Any three sub fields of Psychology.

b) Define classical conditioning and discuss its application to human life.

c) Sources of frustration.

d) Techniques to improve Memory.

e) Self-actualization theory of motivation.

f) Describe any three Defense mechanisms.

51215

2. Short answer question (**any five** out of six): **[5 × 5 = 25]**

a) Write causes and clinical features of Delirium.

b) Define Hallucination. Discuss various types of Hallucination.

c) Discuss clinical features and treatment of Paranoid schizophrenia.

d) Conversion Disorder.

e) Enuresis.

f) Drugs used in Depression.

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al Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

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SECTION - "A" SAQ **(50 Marks)**

Short answer question (**any five** out of six) : **[5 × 3 = 15**

a) Define 1 RM and 10 RM.

b) Standard Cane.

c) Note on trick movement.

d) Write any three contraindication for cervical Traction.

e) Delorme's method of PRE.

f) Define Step Length and stride Length.

Short answer question (**any five** out of six): **[5 × 7 = 35]**

a) Principles & Techniques of Frenkels exercise for Lower limb.

b) Deviations from Ideal Standing posture in lateral view.

c) Write an note on Indication and Contraindications of Hydrotherapy in detail.

d) Indications to mobility exercises and write the note on mobility exercise for knee joint.

e) Coughing and huffing.

f) Write an note on Mat exercises on Supine to Sitting.

SECTION - "B" LAQ **(30 Marks)**

Long answer questions (**any one** out of two) : **[1 × 15 = 15]**

a) i) Define strength.
ii) Enumerate principles of strengthening exercises.
iii) Strengthening programme for knee flexors from grade 0 to grade 5

(2 + 8 + 5)

b) Describe principles and determinants of stretching. Discuss hold-relax technique.

(5 + 5 + 5)

Long answer questions (**any one** out of two) : **[1 × 15 = 15]**

a) i) Define postural drainage.
ii) Indications and contraindications of postural drainage.
iii) Postural drainage for right lower lobe

(2 + 8 + 5)

b) i) Write an note on type of Breathing Exercise.
ii) Effects & uses of breathing exercises.
iii) Note on ACBT

(5 + 5 + 5)



ond BPTH (2012) Examination, Summer (Phase - III All Other Remaining UG/PG Courses) - 2020

ELECTROTHERAPY

Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

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SECTION - "A" SAQ **(50 Marks)**

Short answer question (**any five** out of six) : **[5 × 3 = 15]**

a) Russian currents parameters.

b) Six contraindications for Short wave diathermy.

c) Arndt-Schultz Principle.

d) Classification of ultraviolet rays.

e) Types of electrodes used in SWD.

f) Advantages & disadvantages of strength duration curve.

Short answer question (**any five** out of six): [5 × 7 = 35]

a) Describe Pain pathway and explain Pain gate theory.

b) Describe Phonophoresis.

c) Physiological & therapeutic effects of Pulsed SWD.

d) Acceleration of wound healing by using UVR and LASER.

e) Merits, Demerits and uses of Biofeedback.

f) Define T.E.N.S. It's classification and electrode placement sites.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (**any one** out of two) : [1 × 15 = 15]

a) Define LASER, it's properties, biological effects, indications and contraindications.

b) What is Interferential therapy? Write the Principles of I.F.T. and Therapeutic uses according to different modes and beat Frequencies. Advantages of Interferential therapy over Low frequency currents.

4. Long answer question (**any one** out of two) : [1 × 15 = 15]

a) Describe the Physiological effects of Faradic current and write the therapeutic effects. Add a note on principle and technique of application during Faradic Re-education.

b) Describe physiological effects, therapeutic effects and contraindications pertaining to ultraviolet rays.

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SECTION - "A" SAQ **(50 Marks)**

(Pathology)

Short answer question (**any five** out of six) : **[5 × 7 = 35]**

a) Describe the clinical features and pathology of congenital myopathies.

b) Define atherosclerosis. Describe in detail the risk factors and effects of atherosclerosis.

c) Define necrosis. Describe the types of necrosis with examples.

d) Describe the clinical features and Lab. diagnosis of Iron deficiency anemia.

e) Describe healing by primary intension. mention factors affecting wound healing.

f) Mention types of arthritis.Describe briefly osteoarthritis.

Long answer question (**any one** out of two): **[1 × 15 = 15]**

a) Define inflammation. Describe the vascular & cellular events in acute inflammation. Mention the differences between trasudate & exudate.

b) Define neoplasia. Describe the modes of spread of malignant tumors.

SECTION - "B" LAQ (30 Marks)

(Microbiology)

Short answer question (**any three** out of four) : **[3 × 5 = 15]**

a) Cultivation of viruses.

b) Standard tests for Syphilis.

c) Pathogenicity of Candida albicans.

d) Complications of falciparum Malaria.

Long answer questions (**any one** out of two) : **[1 × 15 = 15]**

a) Define the terms Sterilization and Disinfection. Enumerate the Physical methods of Sterilization. Describe in detail the Principle and functioning of an Autoclave.

b) Enumerate the types of antigen-antibody reactions. Describe the principle, mechanism and applications of the Precipitation reactions.

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PHARMACOLOGY

Duration : 2 Hours

Total Marks : 40

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7) *Use a common answer book for all sections.*

Short answer question (**any five** out of six) : **[5 × 3 = 15]**

a) Classify reversible anticholinesterases. Explain therapeutic uses of Neostigmine.

b) Explain the rationale of combining levodopa with carbidopa in Parkinsonism.

c) Classify drugs used in the treatment of Bronchial asthma. Give details of Montelukast use in Bronchial asthma.

d) Discuss therapeutic uses of beta blockers.

e) Describe mechanism of action of metronidazole along with its adverse drug reaction.

f) Define vaccine.State examples of live vaccines with their advantages.

2. Short answer question (**any five** out of six) : [5 × 5 = 25]

a) Define bioavailability. Discuss various factors affecting bioavailability.

b) Compare and contrast between NSAIDS and opioid analgesics.

c) Enumerate various insulin preparation. Write uses and adverse effects of insulin.

d) Discuss mechanism of action and therapeutic uses of carbamazepine.

e) Enumerate drugs used in rheumatoid arthritis. Explain the role of methotrexate in rheumatoid arthritis.

f) Describe the common characteristics and therapeutic uses of aminoglycosides.

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