Second B.P.TH. (2012) Examination, Summer - 2023 (Phase - III)
KINESIOLOGY

Total Duration : 3 Hours | Total Marks : 80

Instructions : 1) *Use **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)

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

a) Note on carrying angle of elbow.

b) Note on classification of joint.

c) Passive insufficiency.

d) Write a note on Q- Angle.

e) Close pack position of hip joint.

f) Class Three Levers.

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

a) Explain Anatomical pulleys in hand complex in detail.

b) Describe arches of foot and it's function.

c) Define Osteokinematics and Arthrokinematics. Explain it with examples.

P.T.O

d) Active and passive stabilization of shoulder.

e) Explain factors affecting muscle function.

f) Explain kinematics of cervical vertebrae.

SECTION - "B" LAQ (30 Marks)

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

a) Describe different phases in stace phase of the gait with muscle work.

b) Discuss shoulder joint complex in detail under following headings. [5 + 5 + 5]

i) Articulations

ii) Kinematics

iii) Kinetics

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

a) Write a note of kinetics, kinematics of ankle joint emphasizing on subtallar joint movement. [4 + 4 + 7]

b) Discuss hip joint in detail under following headings. [5 + 5 + 5]

i) Articulations

ii) Kinematics

iii) Kinetics

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KINESIOTHERAPY

Total Duration : 3 Hours Total Marks : 85

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7) Use a common answer book for all sections.

SECTION - "A" SAQ (50 Marks)

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

a) Anatomical Pulley.

b) Active & Passive Insufficiency.

c) Principles of resistance Exercises.

d) Contraindications of postural drainage.

e) Mechanism of Co-ordination.

f) Principles of MMT.

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

a) Kinematics of Knee Joint.

b) Concave Convex rule. Write a note on types of motion.

c) Principles of PNF.

d) Principles & Components of frenkel's exercise.

e) Explain in detail Stress-Strain Curve.

f) Active Cycle of Breathing Technique.

P.T.O.

SECTION - "B" LAQ (30 Marks)

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

   a) In reference to Ankle Joint write

      i) Note on centre of pressure during Walking

      ii) Kinematics of Subtalar Joint

      iii) Kinetics & Kinematics of ankle joint

   b) Functional reduction from Supine to lying to standing.

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

   a) Indications, Postural drainage position & technique for middle lobe.

   b) Describe principles of muscle strengthening. Discuss different regimes of Progressive Resisted Exercises.

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Second B.P.TH. (2012) Examination, Summer - 2023 (Phase - III)
ELECTROTHERAPY

Total Duration : 3 Hours

Total Marks : 80

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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)

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

a) Enumerate 3 Indications for LASER therapy.

b) Enlist 3 Contraindications of ultrasound.

c) Enumerate 3 Therapeutic uses of Biofeedback.

d) Explain the Advantage of interferential therapy over low frequency currents.

e) Define Chronaxie and rheobase.

f) Enumerate any three differences between faradic and galvanic currents.

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

a) Define MED in Ultra Violet radiations. Describe the technique of Test dose calculation.

b) Write a note on Anodal and Cathodal galvanism.

c) Write a note on precautions, contraindications and dangers of Short Wave diathermy application.

d) Classify stages of wound healing. Explain the use of any 2 electrotherapeutic modalities in wound healing.

e) Define iontophoresis and explain theory of medical ionisation. Describe Effects of various ions with their indications.

f) Write a note on Therapeutic effects of Interferential therapy (IFT).

SECTION - "B" LAQ (30 Marks)

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

a) Describe physiological and therapeutic effects of infra red radiations. Add a note on dangers and contraindications of Infrared radiations.

b) Define TENS. Enumerate different types of TENS. Describe various types of TENS with their pain modulating mechanisms. Enlist the contraindications for TENS application.

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

a) What is Strength duration curve? Explain the characteristics of SD curve related to interpretations. What are the advantages and limitations of SD curves.

b) Describe physiological and therapeutic effects of ultrasound. Add a note on the mechanism of phonophoresis.

□□□

Second B.P.T.H. (2012) Examination, Summer - 2023 (Phase - III)
PHARMACOLOGY

Total Duration : 2 Hours | Total Marks : 40

Instructions : *1) Use **black** ball point pen only.*

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*3) **All** questions are **compulsory.***

*4) The number to the **right** indicates **full** marks.*

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7) Use a common answerbook for all sections.

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

a) Define bioavailability. Describe four factors affecting it.

b) Enumerate mechanisms of action of drugs used for the treatment of epilepsies giving examples.

c) Classify drugs for cough. Add a note on mucolytic agents.

d) Enumerate drugs for Leprosy. Write the schedule of treatment of paucibacillary leprosy giving reason.

e) Enumerate clinical uses of organic nitrates giving examples.

f) Define teratogenicity with suitable examples.

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

a) Classify antiemetic drugs. Add a note on Prokinetic drugs.

b) Classify Non-Steroidal Anti-inflammatory drugs (NSAIDs). Describe their mechanisms of action. Enumerate their Adverse Effects.

c) Classify Skeletal Muscle Relaxant agents. Write their respective uses.

d) Write uses and ADR of Glucocorticoids.

e) Classify Anticholinergic drugs. Write their uses with examples.

f) Enumerate Aminoglycosides. Describe their Mechanism of Action and ADR.

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Second B.P.TH. (2012) Examination, Summer - 2023 (Ph
PSYCHIATRY (INCLUDING PSYCHOLOGY)

Total M

Total Duration : 2 Hours

Instructions : 1) Use **black** ball point pen only.

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3) **All** questions are **compulsory.**

4) The number to the **right** indicates **full** marks.

5) Draw diagrams **wherever** necessary.

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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) Write note on Psychoanalysis.

b) Explain cognitive arousal theory of emotion.

c) What is forgetting? What are the causes of forgetting?

d) Describe any three defense mechanisms citing examples.

e) Write note on obsessive-compulsive disorder.

f) What is observational learning? What was Bandura's classic Bobo dol study?

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

a) Clinical features and management of Borderline personality disorder.

b) Write the symptoms of schizophrenia.

c) Clinical features and management of Encopresis.

d) Clinical symptoms and management of Anorexia nervosa.

e) Clinical features and management of Depression.

f) Electro Convulsive Therapy (ECT).

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Second B.P.T.H. (2012) Examination, Summer - 2023 (Phase - III)
PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 80

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7) Use a common answerbook for all sections.

Section "A" (50 Marks)

(Pathology)

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

a) Distinguish between necrosis and apoptosis

b) Briefly describe the hypersensitivity reactions

c) Define cirrhosis. Give the gross and microscopic appearance of micro nodular cirrhosis.

d) Write a short note on Myasthenia gravis

e) Write a short note on Rickets

f) Enumerate predisposing factors and complications of atherosclerosis.

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

   a) Define acute inflammation. Discuss the vascular and cellular events in acute inflammation.

   b) Define and classify anemia. Discuss laboratory diagnosis of Iron deficiency anemia.

Section "B" (30 Marks)

(Microbiology)

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

   a) Bacterial capsule

   b) Pathogenesis of Rabies

   c) Opportunistic fungal infections

   d) Anaphylaxis

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

   a) Define sterilization and disinfection. Classify methods of sterilization. Discuss in details an autoclave.

   b) Discuss morphology, pathogenesis and laboratory diagnosis of pulmonary tuberculosis.