Second B.P.Th. (2012) Examination, Winter 2020
KINESIOTHERAPY

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

SECTION - A & SECTION - B

Instructions :
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 answerbook for **all** sections.*

SECTION - A (SAQ) (50 Marks)

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

a) Define 1RM and 10RM.

b) Explain SAID principle.

c) Describe principles of Frenkles exercises.

d) Describe different mechanical aids use for strengthening.

e) Enumerate different causes of hypomobility.

f) Describe Creep.

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

a) Describe supine to sit mat activity and mention uses of bridging.

b) Explain Equilibrium and Non Equilibrium exercises.

c) Pre crutch training.

d) Explain different strategies used in balance exercise.

e) Describe goals and indications of aquatic exercises.

f) Define scoliosis. Describe Scoliosis posture in frontal plane.

SECTION - B (LAQ) (30 Marks)

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

a) Define muscle strength. Describe factors influencing muscle strengt
Describe determinants of strengthening. [2 + 5

b) Define stretching. Explain Indications and contraindications of stret
exercises. Explain different types of stretching. [2 + 8

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

a) Describe ACBT technique. Give indications for breathing exercise
explain Incentive Spirometry. [5 + 5

b) Define Posture. Explain normal postural assessment in standing in sa
plane. Describe factors affecting posture. [2 + 5

♦ ♦ ♦

[Total No. of Pages : 2

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Second B.P.Th. (2012) Examination, Winter - 2020
PSYCHIATRY (INCLUDING PSYCHOLOGY)

Total Duration : 2 Hours

Total Marks : 40

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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 Psychology and describe its sub-fields.

b) What are perception and perceptual abnormalities?

c) What are the sources of frustration?

d) Explain the concept of stimulus generalisation and stimulus discrimination.

e) Discuss information processing theory of Memory.

f) Discuss defense machanisms and its importance.

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

a) What are different types of mood disorders?

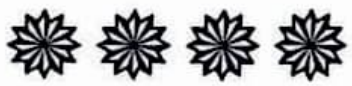
b) What are the different types of childhood Mental Disorders?

c) Explain different kinds of somatoform disorders?

d) Discuss Obsessive compulsive disorder.

e) Describe Personality Disorders.

f) What are the Gestalt principles of perception?



Second B.P.Th. (2012) Examination, Winter - 2020
KINESIOLOGY

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

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7) ***Use** a common answerbook for **all** sections.*

SECTION - A (SAQ) (50 Marks)

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

a) Give open pack and close pack position for shoulder joint.

b) Define osteokinematics and arthrokinematics.

c) State concave - convex rule.

d) Define torque and state its relation with moment arm.

e) State what types of motions are available at pivot joints. Give two examples of pivot joint.

f) Write the role of anatomic pulleys and give one example.

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

a) Describe organization and recruitment of motor unit.

b) Differentiate between open kinematic chain and closed kinematic chain with example.

c) Describe types of muscle contraction.

d) Describe classification of muscle.

e) Describe stress - strain curve.

f) Compare the structure and function of synarthroses with diarthroses.

SECTION - B(LAQ) (30 Marks)

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

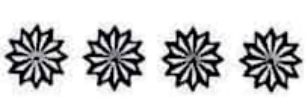
a) Describe determinants of gait. Describe kinetics and kinematics of gait in sagittal plane.

b) Describe plantar arches. Write its functions. Add a note on muscles contributing to the arches.

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

a) Describe static and dynamic stabilization of glenohumeral joint. Write a note on scapulohumeral rhythm.

b) Describe kinetics and kinematics of sacroiliac joint. Add a note on pelvic floor muscle and their functions.



Second B.P.Th. (2012) Examination, Winter 2020
PHARMACOLOGY

Total Duration : 2 Hours | Total Marks : 40

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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) Write briefly on sublingual route of drug administration giving suitable examples.

b) Classify anti-tussive drugs. Write a note on mucolytics.

c) Compare and contrast Metoclopramide and Domperidone.

d) Write a note on adverse effects of insulin treatment.

e) Write a note on topical anti-fungal agents.

f) Describe in brief about therapeutic uses of Rifampicin.

2. Short answer question (any five out of six) : **51211**

[5 × 5 = 25]

a) Classify non-steroidal anti-inflammatory drugs (NSAIDs). Write in brief about mechanism of action, adverse effects and therapeutic uses of Diclofenac sodium.

b) Write the mechanism of action, clinical uses of aminoglycoside antibiotics.

c) Enumerate various adrenergic drugs. Mention adverse effects and therapeutic uses of Adrenaline.

d) Write briefly on adverse effects and therapeutic uses of prednisolone.

e) Classify anti-epileptics. Write briefly on mechanism of action, adverse effects and therapeutic uses of Phenytoin sodium.

f) Classify anti-hypertensive drugs. Discuss the mechanism of action, adverse effects and Therapeutic uses of Angiotensin converting enzyme inhibitors.

Second B.P.Th. (2012) Examination, Winter - 2020
PATHOLOGY & MICROBIOLOGY

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

SECTION - A & SECTION - B

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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) Define myocardial infarction. Enlist the complications & important laboratory investigations.

b) Describe briefly Osteomyelitis.

c) Define amyloidosis. Enlist the various causes of amyloidosis and the special stains used for its diagnosis.

d) Define muscular dystrophy. Describe Duchenne muscular dystrophy.

e) Describe the pathology and complications of pyogenic meningitis.

f) Define neoplasia. Enumerate differences between benign & malignant tumors.

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

a) Define oedema. Briefly describe the etiological types & give differences between transudate & exudate.

b) What is Ghons complex? Describe the lesions in secondary pulmonary tuberculosis.

SECTION - "B" (30 Marks)

(Microbiology)

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

a) Define Hospital Acquired Infections (HAI). Enumerate common hospital acquired infections and organisms associated with them.

b) Write a short note on Mycetoma with its laboratory diagnosis.

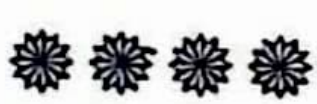
c) Mention etiological agents of Gas gangrene. Describe the laboratory diagnosis of Gas gangrene.

d) Mention the different routes of HIV transmission. Write briefly about its laboratory diagnosis.

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

a) Name the organism causing Syphilis. Discuss its morphology and mention various modes of its transmission in humans. Describe its laboratory diagnosis. [2+6+7]

b) Describe the structure of a virus particle. Give two examples each of DNA and RNA viruses. Write a short note on cultivation of viruses. [4+3+8]



Second B.P.Th. (2012) Examination, Winter - 2020
ELECTROTHERAPY

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

SECTION - A & SECTION - B

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*7) **Use** a common answerbook for **all** sections.*

SECTION - A (SAQ) (50 Marks)

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

a) Define Interferential & Russian currents.

b) Describe the parameters of acupuncture TENS.

c) Define therapeutic ultrasound & phonophoresis.

d) Define inverse square law with examples.

e) What are micro currents?

f) Define anodal and cathodal Galvanism?

2. Short answer question (**any five** out of six): **51213** [5 × 7 = 35]

a) Describe the Faradic re-education technique with an example.

b) Discuss indications & contraindication of Interferential therapy.

c) Discuss types of TENS with parameters and waveforms.

d) Define biofeedback. Discuss types of biofeedback with examples.

e) What are different modes of High Voltage Pulsed Galvanic Currents (HVPGS)?

f) Discuss principles of faradism under pressure. Discuss instructions given to patient during treatment session. Add a note on Faradism under pressure for Lower limb.

SECTION - B (LAQ) (30 Marks)

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

a) Describe the physiological effects of ultrasound & Describe the healing of non-infected wound with ultrasound.

b) Describe classification of UVR based on wavelength & physiological effects of UVR.

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

a) How the heat is produced in body tissues with short wave diathermy. Discuss spacing, electrode size and position of electrodes with SWD.

b) Discuss pain pathways. Describe the mechanisms of electro-analgesia with TENS.