51213

Second B.P.Th. (2012) Examination, Winter 2016
ELECTROTHERAPY

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) Discuss property of accommodation.
   b) Write any three differences between galvanic and faradic current.
   c) Discuss any two laws of radiation with application to physiotherapy.
   d) Discuss types of electrodes used in Short wave diathermy.
   e) Explain E-2 dose of Ultra violet radiation.
   f) Mention any three ions with the solution used for pain relief.

2. Short answer question (**any five** out of six) : **(5×7=35)**
   a) Write a note on strength duration curve.
   b) Briefly discuss therapeutic effects of pulsed SWD.
   c) Discuss principles and uses of biofeedback.
   d) Discuss properties and uses of LASER.
   e) Discuss physiological and therapeutic effects of Ultra sound.
   f) Discuss application of UVR in wound healing.

P.T.O.

SECTION – B (LAQ) (30 Marks)

3. Long answer question (**any one** out of two) : (1x15=15)

   a) Discuss positioning of electrodes in short wave diathermy. Also, discuss its indications and contra indications. (7+4+4)

   b) Discuss physiological and therapeutic effects of Interferential therapy. Also, discuss advantages of Interferential therapy over low frequency currents. (10+5)

4. Long answer question (**any one** out of two) : (1x15=15)

   a) Describe the different types of IR generators .Also discuss the indications and contra indications of IR radiations. (7+4+4)

   b) Discuss physiological and therapeutic effects of faradic currents. Also, discuss faradism under pressure along with its application. (8+7)

51214

Second B.P.Th. (2012) Examination, Winter 2016
KINESIOTHERAPY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

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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 answerbook for **all** Sections.*

SECTION – A **(SAQ) (50 Marks)**

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

   a) Enumerate three types of trick movements with example.

   b) Indications and contraindications of cervical traction.

   c) Measurement of Axillary crutch.

   d) Creep.

   e) Enumerate broncho pulmonary segments of right lung.

   f) What is 1RM and 10RM ?

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

   a) Explain in brief basic technique of PNF. (question replaced) a) Explain principles of PNF.

   b) Mat activities in supine.

   c) Types of breathing exercises.

   d) Write about Gait cycle and its measurable parameters.

   e) Physical properties of water. Add a note on precaution and contraindication for aquatic exercises.

   f) Explain in detail assessment of posture in lateral view.

P.T.O.

SECTION – B (LAQ) (30 Marks)

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

   a) Define strength, power and endurance. What are the factors influencing strength of normal muscle ? Describe principles of strength training.

   b) Explain the types of contracture. Add a note on determinants, types and effects of stretching.

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

   a) What is postural drainage ? Write a note on goals and indication and contraindication for postural drainage. Explain in detail postural drainage for right and left upper lobe.

   b) Define coordination and balance. Describe Frankel's exercises in detail.

51216

Second B.P.Th. (2012) Examination, Winter 2016
KINESIOLOGY

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

SECTION – A and SECTION – B

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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.*

SECTION – A **(SAQ) (50 Marks)**

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

   a) Name Ligaments of ankle joints.

   b) Note on Locking and unlocking of knee.

   c) Lumbo pelvic rhythm.

   d) Describe weight bearing structure of hip joint.

   e) Define step length and stride length.

   f) Enumerate Static stabilizers of glenohumeral joint.

P.T.O.

(5×7=3

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

a) Concave Convex Rule and its application.

b) Note on different types of muscle contractions in detail.

c) Write note on active and passive insufficiency with examples.

d) Write an note on types of muscle fibres and their properties.

e) Classification of joints and write note on Osteokinematics of wrist joint.

f) Define Arthrokinematics and note on Gliding.

SECTION – B **(LAQ) (30 Marks)**

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

a) Write in brief biomechanics of knee joint. Describe in details the tibio femoral complex with mediolateral joint stability.

b) Describe in detail the functions of the ligaments of spinal column. Describe kinematics and kinetics of lumbar spine.

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

a) What are phases of normal gait cycle ? Write note on gait determinants.

b) Write a note on Kinetics and kinematics of gait.

.51212

Second B.P.T.H. (2012) Examination, Winter 2016
PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 80

Instructions :

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3) ***All** questions are **compulsory**.*
4) *The number to the **right** indicates **full** marks.*
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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)**

(Pathology)

(5×7=35)

1. Short answer question (**any five** out of six) :
   a) Mention different types of necrosis with suitable examples.
   b) Define repair. Desribe healing by primary intention.
   c) Write in short laboratory diagnosis of iron deficiency anaemia.
   d) Describe clinical features and pathology of rheumatoid arthritis.
   e) Mention classical features of scurvy.
   f) Mention various bone tumors and write in brief about osteogenic sarcoma.

(1×15=15)

2. Long answer question (**any one** out of two) :
   a) Define thrombosis. Write a note on pathogenesis and complications of a thrombus.
   b) Discuss clinical features and pathology of various congenital myopathies.

P.T.O.

SECTION – B (30 Marks)

(Microbiology)

3. Short answer question (**any three** out of four) : (3×5=15)
   a) Discuss types of innate immunity and the factors that affect them.
   b) Write on Universal safety precautions.
   c) Write on laboratory diagnosis of HIV.
   d) Discuss Neurocysticercosis.

4. Long answer question (**any one** out of two) : (1×15=15)
   a) Discuss pathogenesis and laboratory diagnosis of Pulmonary tuberculosis.
   b) Enumerate causative agents of superficial fungal infections and discuss the laboratory diagnosis of Dematophytosis.

Spelling correction → Dermatophytosis

51211

Second B.P.Th. (2012) Examination, Winter 2016
PHARMACOLOGY

Total Duration : 2 Hours | Total Marks : 40

Instructions: *1) Use **blue/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.*

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.*

1. Short answer question (**any five** out of six) : **(5x3=15)**
   a) Define Bioavailability. Write factors affecting it.
   b) Define antitussives. Write classification of antitussive drugs.
   c) Write pharmacotherapy of myasthenia gravis.
   d) Write drug therapy for status asthmaticus.
   e) Write drug treatment of multibacillary leprosy.
   f) State mechanism of action of succinylcholine.

2. Short answer question (**any five** out of six) : **(5x5=25)**
   a) Classify antiepileptic drugs. Write mechanism of action and uses of carbamazepine.
   b) Classify opioid analgesics. Write actions of morphine.
   c) Classify antiemetic drugs. Write differences between domperidone and metoclopramide.
   d) Classify antianginal drugs. Write mechanism of action and adverse effects of nitrates.
   e) Write mechanism of action, uses and adverse effects of aminoglycosides.
   f) Classify corticosteroids. State their uses and adverse effects.

51215

Second B.P.Th. (2012) Examination, Winter 2016
PSYCHIATRY (INCLUDING PSYCHOLOGY)

Duration : 2 Hours

Total Marks : 40

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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 answerbook for **all** Sections.

1. Short answer question (**any five** out of six) : **(5×3=15)**
   a) Define psychology and briefly describe its various fields.
   b) Briefly describe social development in childhood.
   c) Explain the concepts of classical conditioning with the help of Pavlov's classic experiment.
   d) Explain the information -processing model of memory.
   e) Explain visual depth perception.
   f) Explain drive- reduction approach of motivation.

2. Short answer question (**any five** out of six) : **(5×5=25)**
   a) Describe the clinical features of Obsessive Compulsive Disorder.
   b) What are the clinical features of paranoid schizophrenia ?
   c) Write answer on delusional disorder.
   d) Describe the signs and symptoms of schizophrenia.
   e) Write answer on Major Depressive Disorder.
   f) Write answer on Amnestic syndrome.