51213

Second B.P.Th. 2012 Examination, Summer 2017
ELECTROTHERAPY

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

SECTION –A and 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) Draw a neat and labelled diagram of motor points of the face.
   b) Name any three ions with their polarity and indication used in iontophoresis.
   c) Describe various electrodes used in SWD.
   d) Describe the mechanism of accommodation.
   e) Properties of LASER.
   f) Describe in brief High Voltage pulsed galvanic currents.

2. Short answer question (**any five** out of six) : **(5×7=35)**
   a) Describe the various types of TENS.
   b) Explain EMG biofeedback with examples.
   c) Write on PUVA and Leeds regime.
   d) Explain wound healing using LASER.
   e) Describe different types of IR.
   f) Explain in details the rationale and treatment technique of faradism under pressure.

P.T.O.

SECTION "B" LAQ (30 Marks)

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

   a) Define ultrasound. Write in details its treatment methods. Add on its physiological effects.

   b) Write in details the methods of application of SWD. Add on its contraindications and therapeutic effects.

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

   a) Define a strength duration curve. Draw curves for ~~innervated, partial and denervated curves with proper explanation of each~~. Describe characteristic of normal SDC

   b) Define IFT. Write its methods of application, indications and contraindications.

51216

Second B.P.T.H. (2012) Examination, Summer 2017
KINESIOLOGY

Total Duration : 3 Hours | Total Marks : 80

SECTION – A &.SECTION – B

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.*
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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 young's modulus.
   b) Write the role of anatomic pulleys and give one example.
   c) Define torque and state its relation with moment arm.
   d) Define osteokinematics and arthokinematics.
   e) Give one example each of closed and open kinematic chain action in human body.
   f) State concave-convex rule.

2. Short answer question (**any five** out of six) : **(5×7=35)**
   a) Compare the structure and function of Synarthroses with that of Diarthroses.
   b) Describe organisation and recruitment of motor unit.
   c) Describe types of muscle contraction.
   d) Define joint play. Differentiate between closed packed and open packed position.
   e) Differentiate between open kinematic chain and closed kinematic chain.
   f) Define Lever and explain types of lever.

P.T.O.

SECTION – B **LAQ (30 Marks)**

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

   a) Describe the gait under following heads :

      i) Define gait.

      ii) Describe phase of gait cycle.

      iii) Explain kinetics and kinematics of gait instance phase at hip-knee-ankle.

   b) Describe kinetics and kinematics of lumbar spine. Add a note on role of Thoracolumbar fascia instability of the lumbopelvic region.

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

   a) Describe kinetics and kinematics of sacroiliac joint. Add a note on pelvic floor muscles and their function.

   b) Describe planter arches. Write its function. Add a note on muscle contribution to the arches.

51214

Second B.P.Th. (2012) Examination, Summer 2017
KINESIOTHERAPY

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

SECTION – A & SECTION – B

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4) *The number to the **right** indicates **full** marks.*
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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) Hold relax technique.
   b) Enumerate the types of traction.
   c) Bridging.
   d) Uses of home exercises.
   e) 3 indications of breathing exercises.
   f) Types of walking aids.

2. Short answer question (**any five** out of six) : **(5×7=35)**
   a) Write principles of hydrotherapy. ~~Explain bad ragaz technique in detail~~.
   b) Precrutch training.
   c) Describe humidifiers and its types.
   d) Explain 2 stretching techniques in detail.
   e) Principles of manual muscle testing.
   f) Explain principles of co-ordination.

P.T.O.

SECTION – B
(LAQ)

(30 Marks)

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

   a) Define posture. Discuss standing posture. Write a note on physiological deviations seen in standing posture. **(1+7+7)**

   b) Enumerate principles of strengthening. Discuss strengthening programme of quadriceps femoris from grade 0 to grade 5. **(7+8)**

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

   a) Define postural drainage. Write down its indications and contraindications. Discuss postural drainage position for right side upper lobe with diagrams. **(1+4+4+6)**

   b) Enumerate types of mobility. Discuss factors affecting mobility. Explain mobility exercises for shoulder flexion with diagrams. **(3+4+8)**

51212

Second B.P.Th. (2012) Examination, Summer 2017
PATHOLOGY AND MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION – A and SECTION – B

Instructions :

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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 answer book for **all** Sections.*

SECTION – A **(50 Marks)**
(Pathology)

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

   a) Write on Scurvy.

   b) Describe etiology, pathogenesis and fate of thrombosis.

   c) Reversible injury.

   d) ~~Exogenous pigments~~. Def neoplasia Diff Benign Malignant

   e) Cellular events in acute inflammation.

   f) Free radicals and cell injury.

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

   a) Define repair. Mention factors affecting wound healing. Describe healing of bone fracture.

   b) Enumerate hypersensitivity reactions. Write pathology of type IV hypersensitivity reaction with examples.

P.T.O.

SECTION – B (30 Marks)
(Microbiology)

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

   a) Write differences between the Innate Immunity and Acquired Immunity.

   b) Define Sterilization. Write the principle, working and control of Autoclave.

   c) Write a note on Candiasis.

   d) Cultivation of Viruses.

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

   a) Classify Mycobacteria. Write in detail about the Pathogenesis and Laboratory diagnosis of Pulmonary tuberculosis.

   b) Enumerate blood parasites. Write about the life cycle, pathogenesis and laboratory diagnosis of Malarial parasite.

51211

Second B.P.Th. (2012) Examination, Summer 2017
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) : **(5×3=15)**
   a) Write on therapeutic uses of Atropine.
   b) What is the rationale of combining levodopa-carbidopa in treatment of parkinsonism ?
   c) Write mechanism of action and 2 therapeutic indications of Ampicillin.
   d) Name 2 pro-kinetic agents. Write their mechanism of action.
   e) What is biological half life ? Write its clinical significance.
   f) Write short course chemotherapy for a patient suffering from pulmonary tuberculosis.

2. Short answer question (**any five** out of six) : **(5×5=25)**
   a) Classify drugs used in treatment of hypertension. Write mechanism of action and adverse effects of ACE-Is.
   b) Enumerate insulin preparations. Explain the therapeutic uses and adverse effects of them.
   c) Explain the pharmacological actions and therapeutic uses of paracetamol. Add on treatment of paracetamol poisoning.
   d) Classify various routes of drug administration. Mention merits and demerits of parenteral route of drug administration.
   e) Define Adverse Drug Reactions (ADRs). Discuss various types of ADRs with appropriate example.
   f) Classify antiasthmatics. Write treatment of status asthmatics in brief.

51215

Second B.P.Th. (2012) Examination, Summer 2017
PSYCHIATRY (Including Psychology)

Total 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 discuss sub-fields of psychology.
   b) Discuss the concept of "stimulus generalization" and "stimulus discrimination" in classical conditioning.
   c) Define forgetting and write cause of forgetting.
   d) Describe the various types of conflicts with suitable examples.
   e) Explain Erickson's theory of personality development.
   f) Explain Gestalt principles of grouping in perception.

2. Short answer question (**any five** out of six) : **(5×5=25)**
   a) Write note on Panic disorder.
   b) Discuss clinical features of schizo-affective disorder.
   c) Describe in short various subtypes of Schizophrenia.
   d) Discuss somatoform pain disorder.
   e) Describe clinical features and management of Depression.
   f) Write a note on Dementia.
