51211

Second B.P.Th. (2012) Examination, Winter 2017
PHARMACOLOGY

Total Duration : 2 Hours | Total Marks : 40

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.*

1. Short answer question (**any five** out of six) : **(5×3=15)**
   a) Enumerate parenteral routes of administration of drugs. Give examples.
   b) What is a hypnotic drug ? Write important uses of diazepam.
   c) What are anticholinesterases ? Write three differences between neostigmine and physostigmine.
   d) Enumerate anti platelet agents. How do they prevent agglutination of platelets ?
   e) Write drugs used in megaloblastic anemia. How do they act ?
   f) Write important uses and adverse effects of amoxicillin.

2. Short answer question (**any five** out of six) : **(5×5=25)**
   a) Which drugs are used in Parkinson's disease ? Why L-dopa is combined with carbidopa ?
   b) Enumerate NSAIDs. Write therapeutic uses of Aspirin.
   c) Enlist beta blockers. Write mechanism of antihypertensive effect and important uses of porpranolol.
   d) Enumerate glucocorticoids. What are their therapeutic uses ?
   e) Enumerate bronchodilators. Write the drug treatment of status asthmaticus.
   f) Classify diuretics. What are indications for furosemide ?

51212

Second B.P.T.H. (2012) Examination, Winter 2017
PATHOLOGY AND MICROBIOLOGY

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

SECTION A & SECTION – B

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

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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 **(50 Marks)**

(PATHOLOGY)

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

   a) Define oedema. Differentiate between transudate and exudate.

   b) Write a short note on Rickets.

   c) Describe the modes of spread of a malignant neoplasm.

   d) Define pneumoconiosis. Write a brief note on Asbestosis.

   e) Write in short predisposing factors and complications of acute myocardial infarction.

   f) Describe the types of necrosis with suitable examples.

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

   a) What is inflammation ? Discuss the vascular and cellular events in acute inflammation.

   b) Classify muscular disorders. Discuss muscular dystrophies in detail.

SECTION – B (30 Marks)

(MICROBIOLOGY)

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

   a) Define serological reactions. Enlist the various types of serological reactions. Discuss Agglutination reaction and it's application.

   b) Enumerate the causative agents of Sexually Transmitted Diseases (STD). Write the serological diagnosis of Syphillis.

   c) Enumerate the superficial fungal infections. Discuss the laboratory diagnosis of Dermatophytosis.

   d) Write the difference between T.Saginata and T.soleum.

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

   a) Define Bio-Medical Waste(BMW). **1**

   Name the various categories of BMW according to BMW (Disposal and Management Rules) 1998. **5**

   Mention the colour codes used for various categories. **4**

   Describe the different modes of treatment used to treat different categories of waste.

   b) Define window period. **5**

   Write the various modes of transmission of HIV infection. **2**

   Discuss the laboratory diagnosis of HIV infection. **3**

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51213

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

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.*
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) Types of LASER.
   b) Diadynamic currents.
   c) Anodal galvanism.
   d) Russian current.
   e) Electromagnetic spectrum.
   f) Psoralen Ultraviolet A (PUVA).

2. Short answer question (**any five** out of six) : **(5×7=35)**
   a) Expalin pain gate mechanism.
   b) Physiological and therapeutic effects of infra-red radiation.
   c) Explain in detail about different types of TENS.
   d) Iontophoresis for hyperhidrosis.
   e) Therapeutic uses of LASER.
   f) Thermal and non-thermal effects of Ultra sound.

SECTION – B LAQ (30 Marks)

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

   a) Write in detail about galvanic current. Describe the plotting and characteristics of a normal strength Duration Curve. **(5+10)**

   b) Principle of IFT. **(5)**

      Therapeutic application of IFT. **(10)**

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

   a) Classification of UVR. **(2)**

      Physiological effects of UVR. **(6)**

      Application of UVR for Psoriasis. **(7)**

   b) Physical characteristics of SWD. **(5)**

      Different methods of electrodes placement. **(5)**

      Therapeutic effects of SWD. **(5)**

51214

Second B.P.Th. (2012) Examination, Winter 2017
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 **(50 Marks)**
(SAQ)

1. Short answer question (**any five** out of six) : **(5x3=15)**
   a) Define Strength, Power and Endurance.
   b) Enumerate the intervention strategies to improve motor control.
   c) Define Gait and Cadence.
   d) Explain Strengthening of triceps muscle from grade II to III.
   e) Enumerate any six precaution for joint mobilization.
   f) Enumerate different types of gait pattern for use of axillary crutches.

2. Short answer question (**any five** out of six) : **(5x7=35)**
   a) Describe effects and uses of spinal traction.
   b) Write principles of home program and ergonomic advice for ADLs.
   c) Explain principles and techniques of Frenkels exercises.
   d) Define Humidification. Explain different types and methods of delivery of humidification.
   e) Define 1 RM. Explain Delorme and Watkins, Macqueen and Zinovieff protocols of Progressive Resisted Exercises.
   f) ~~Define~~ Explain pre 'walking aids' training.

P.T.O.

SECTION – B (30 Marks)
(LAQ)

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

   a) Define posture and write postural mechanism. Write Sagittal plane analysis of optimal erect standing posture and possible physiological deviations from it. **(5+10)**

   b) Write goals and uses of breathing exercises. Describe the different types of breathing exercises. Add a note on ACBT. **(3+7+5)**

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

   a) Describe physical properties of water. Write the physiological and therapeutic effects of hydrotherapy. Write indications and contraindications of hydrotherapy. **(3+6+6)**

   b) Define stretching and enumerate different types of it. Write indication, contraindications and precaution of stretching. Explain principles of stretching exercises. **(4+6+5)**

51215

Second B.P.Th. (2012) Examination, Winter 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 memory and describe various types of memory.
   b) Define Psychology and describe nature of psychology.
   c) Discuss Erikson's theory of psycho-social development in childhood.
   d) Define stress and describe the sources of frustration.
   e) What is attention ? Describe the nature of attention.
   f) How does the Punishment affect the behaviour ?

2. Short answer question (**any five** out of six) : **(5×5=25)**
   a) Discuss signs, symptoms and management of depression.
   b) Discuss the important points of Mental status examination.
   c) Describe clinical features and types of schizophrenia.
   d) Write note on Anxiety disorder.
   e) Discuss the difference between delirium and dementia.
   f) Write a note on various types somatoform disorder.

51216

Second B.P.Th. (2012) Examination, Winter 2017
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.*
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) Anatomical pulley.
   b) Define shunt and spurt muscle.
   c) Define Motor unit. State size principle of motor unit recruitment.
   d) Define Close and Open kinematic chain and give one example of each.
   e) State concave convex rule with example.
   f) Define active insufficiency of muscles with example.

2. Short answer question (**any five** out of six) : **(5×7=35)**
   a) Describe kinetics and kinematics of sit to stand from a chair without armrest.
   b) Enlist the movements at temporomendibular joint. Explain the kinematics and kinetics of opening and closing of mouth.
   c) Describe Nutation and Counternutation. Write function of pelvic floor muscles.
   d) If a person has left painful hip in which hand he should hold the cane. Explain the reason for your answer.
   e) Define carrying angle. Explain the muscle work during push up.
   f) Describe archs of foot and explain it's function.

P.T.O.

SECTION – B LAQ **(30 Marks)**

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

   a) Define Gait cycle. Describe determinants of gait. Describe the kinetics and kinematics of gait in sagital plane. **(2+5+8)**

   b) Describe Q angle along with its importance. Describe kinetics and kinematics of tibiofemoral joint. **(5+5+5)**

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

   a) Describe kinetics and kinematics of glenohumeral joint. Explain scapulohumeral rhythm. **(6+6+3)**

   b) Describe the kinetics and kinematics of thoracic spine. Write the importance of intervertebral disc. **(5+5+5)**