Second B.P.TH. (2012) Examination, Summer - 2025 Phase - II

PHARMACOLOGY

Total Duration : 2 Hours | Total Marks : 40

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 answerbook for **all** sections.

1. Short Answer Questions (Solve any 5 out of 6) : [5×3=15]

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a) Compare and contrast between succinyl choline and d-tubocurarine.

b) Describe the management of Organophosphorus compound poisoning.

c) Classify drugs used in peptic ulcer and enumerate its uses.

d) Enumerate drugs used in treatment of cough. Describe the management of productive cough.

e) Write a note on drug tolerance.

f) Enumerate parenteral iron preparations. Describe their indications and adverse effects.

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2. Short Answer Questions (Solve **any 5** out of 6) : [5×5=25]

a) Classify Non steroidal anti-inflammatory drugs. Write a short note on Ibuprofen.

b) Classify Penicillins. Write mechanism of action, therapeutic uses and adverse effects of Amoxycillin.

c) Enumerate Insulin preparations. Describe various therapeutic indications and adverse effects of Insulin preparations.

d) Classify beta blockers. Mention its therapeutic uses, adverse effects and contraindications.

e) Classify drugs used in congestive cardiac failure. Write a note on Angiotensin converting enzyme inhibitors.

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f) Classify drugs used in parkinsonism. Describe role of Levodopa + Carbidopa combination in its management.



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Second B.P.TH. (2012) Examination, Summer - 2025 Phase - II
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 Questions (Solve any 5 out of 6) : **[5 × 3 = 15]**

a) Describe various causes of Forgetting.
b) What is Perception? Describe the monocular cues of perception.
c) Write a note on developmental psychology of old age.
d) What do you understand by Counseling? Describe various sub-fields of Psychology.
e) Describe in brief the theories of Motivation.
f) What is instrumental conditioning? Explain with suitable example.

2. Short Answer Questions (Solve any 5 out of 6) : **[5 × 5 = 25]**

a) Describe the management of a patient with alcohol dependence.
b) Describe the clinical features of obsessive compulsive disorder.
c) What is Somatic symptom disorder? Write about the causes and symptoms.
d) Describe cognitive behavior therapy along with its common applications.
e) What is Enuresis? Describe the management of nocturnal enuresis.
f) Name various SPECIFIC SEROTONIN REUPTAKE INHIBITOR drugs. Write about their common side effects.

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Second B.P.Th. (2012) Examination, Summer - 2025 Phase - II

PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 80

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.*

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)

1. Short Answer Questions (any five out of six): [5×7=35]

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a) What is Healing? Describe bone fracture healing.

b) Define thrombus. Write pathogenesis of thrombus and fate of thrombus.

c) Describe risk factors associated with Atherosclerosis. Write laboratory diagnosis of Acute myocardial Infarction.

d) Define Neoplasia. Write differences between Benign and Malignant tumors.

e) Write etiology of meningitis. Write differences between pyogenic and tuberculous meningitis.

f) Enumerate hypersensitivity reaction. Describe any one of them with suitable example.

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

a) Define and classify Diabetes Mellitus. Describe investigation for diagnosis and complications of Diabetes Mellitus.

b) What is Granulomatous inflammation? Describe pathogenesis and morphology of Granuloma. Describe Ghon's complex. Enumerate organs involved by miliary tuberculosis.

SECTION-B (30 Marks)

(Microbiology)

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

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a) Discuss principle, working and uses of Hot Air Oven.

b) Describe the laboratory diagnosis of Typhoid fever.

c) Discuss Filariasis

d) Define Agglutination Reaction. Discuss VDRL test.

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

a) Draw a neat and labeled diagram of HIV virus. Mention the opportunistic infections that are seen in HIV infected individuals. Write about the laboratory diagnosis of HIV infection.

b) Describe the morphological classification of fungi with examples. Mention the various infections caused and discuss the laboratory diagnosis of Candida infection.

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Second B.P.TH. (2012) Examination, Summer - 2025 Phase - II
KINESIOLOGY

Total Duration : 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 Questions (**any five** out of **six**) : [5×3=15]
   a) Enumerate thenar & hypothenar muscles.
   b) Explain Temporo-Mandibular joint articulation.
   c) Define motor unit.
   d) Define step length & stride length.
   e) Explain kinematics of pushing
   f) Discuss Concave-convex rule.

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2. Short Answer Questions (**any five** out of **six**) : [5×7=35]
   a) Describe Arches of foot.
   b) Discuss Kinetics and kinematics of elbow joint.
   c) Discuss Kinetics & kinematics of hip joint.
   d) Explain types of muscle contraction.
   e) Explain Classification of joints.
   f) Discuss Grips & pinches of hand.

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SECTION - B LAQ (30 Marks)

3. Long Answer Questions (Solve **any 1** out of **2**) : **[1×15=15]**

a) Discuss Kinetics & kinematics of glenohumeral joint. Write a note on scapulohumeral rhythm. **[8+7]**

b) Describe kinetics & kinematics of cervical spine. Add a note on craniovertebral angle. **[10+5]**

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

a) Define gait cycle. Define phases of gait. Describe kinetics & kinematics of swing phase of gait. **[2+5+8]**

b) Describe kinetics & kinematics of Patellofemoral joint. Write a note on locking & unlocking of knee joint. **[8+7]**

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Second B.P.TH. (2012) Examination, Summer - 2025 Phase - II
KINESIOTHERAPY

Total Duration : 3 Hours

Total Marks : 80

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

SECTION - A (50 Marks)

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

a) Write a note on repetition maximum (RM).

b) Enlist any 6 causes for limited joint mobility.

c) Write a note on Delorme protocol.

d) Define step width and cadence

e) Enlist contraindications to Hydrotherapy

f) State various types of nebulizers

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

a) Write principles of the home program and ergonomic advice for Activities of daily living.

b) Describe the nervous system structures responsible for co-ordinated movement. Describe Frenkel's exercises for the lower limb.

c) Describe various types of expiratory breathing exercises.

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d) Enlist the different types of resistive equipment used in strengthening. Describe the eccentric versus concentric strengthening exercises for the biceps muscle. [3+4]

e) Describe pre-crutch training program. State the method of measurement of Axillary Crutch.

f) Write a note on rolling techniques used in a Functional Re-education program.

SECTION - B (30 Marks)

3. Long Answer Question (solve **any 1** out of **2**) : [1×15=15]

a) Define a Posture. Describe the standing postural analysis in sagittal view and frontal view.

b) Define postural drainage. State contra-indications of Postural drainage. Describe the manual techniques and position used during postural drainage of the right lower lobe of the lung.

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

a) Describe principles of strengthening. Enumerate factors influencing muscle strength. Design an exercise program to train knee flexors from grade 3 to 5. [6+3+6]

b) Define stretching. Describe various types of stretching techniques for hamstring muscles. State indications and contra-indications for stretching. [1+10+4]

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Second B.P.TH. (2012) Examination, Summer - 2025 Phase - II
ELECTROTHERAPY

Total Duration : 3 Hours | Total Marks : 80

Instructions : 1) *Use **black** ball point pen only.*
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7) ***Use** a common answerbook for **all** sections.*

SECTION - A (SAQ) (50 Marks)

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

a) Describe didynamic currents.

b) Enumerate any six dangers of short wave diathermy.

c) Define TENS and enumerate its types.

d) Describe in brief types of UVR.

e) Describe Phonophoresis.

f) Describe Half Value Depth.

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

a) Difference between Faradic and Galvanic current.

b) Describe types of wounds and describe the electrotherapy modalities for wound care.

c) Write about the principles of strength Duration Curve. Draw a diagram showing SDC in case of neurapraxia and complete deneravation.

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d) Describe the mechanism of ionization and dangers. Give examples of three ions with their effects and uses.

e) Describe the technique and application of faradism under pressure. Add a note on its indication.

f) Describe therapeutic effects of Infra Red Radiation. Add note on contraindications to IR.

SECTION - B (LAQ) (30 Marks)

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

a) Define Biofeedback. Write principles of biofeedback. Write a note on uses of Biofeedback.

b) What are medium frequency currents? Write in details the type of electrodes used in Interferential Therapy (IFT). Describe the techniques of application of IFT. Add note on its advantage over low frequency currents.

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

a) Describe technique and application of He-Ne LASER. Write a detailed note on indications, contraindications and dangers.

b) State and define types of short wave diathermy. Describe in details various methods of application of short wave diathermy. Add note on its dangers.

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