Total No. of Pages : 2

100336 **51212**

Second B.P.Th. (2012) Examination, Summer - 2026 Phase - II

PATHOLOGY AND MICROBIOLOGY

Total Duration : 3 Hours Total Marks : 80

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.*

SECTION - A (50 Marks)
(Pathology)

1. Short Answer Questions (Any 5 out of 6) : **[5×7=35]**

a) Describe the microscopic features of muscle necrosis. Enumerate its causes.

b) Classify muscular dystrophies. Describe any one in detail.

c) Write in detail about causes, clinical features and complications of Parkinsonism.

d) Differentiate between a benign and malignant tumour.

e) Write a short note on calcification with appropriate examples.

f) Write a short note on risk factors and pathogenesis of atherosclerosis.

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

a) Define thrombosis. Describe etiopathogenesis of thrombosis. Discuss various types of thrombi and fate of a thrombus.

b) Describe the pathogenesis of Systemic Lupus Erythematosus. Enumerate the clinical features and changes seen in different organ systems.

SECTION - B (30 Marks)

(Microbiology)

3. Short Answer Questions (Any 3 out of 4) : **[3×5=15]**

a) Mention the laboratory diagnosis of Gas gangrene.

b) Mention the laboratory diagnosis of Hepatitis B infection. Add a note on vaccination of Hepatitis B.

c) Enumerate the methods of sterilization by dry heat and add a note on Hot Air Oven.

d) Enumerate the dermatophytes that cause infection in humans and discuss their laboratory diagnosis.

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

a) Enumerate the organisms causing diarrhea. Discuss in detail about the morphology, pathogenesis and laboratory diagnosis of Cholera.

b) Enumerate the different species of Malarial parasite. Discuss in detail the life cycle, pathogenesis and laboratory diagnosis of P. falciparum. Mention any 2 complications caused by P. falciparum.



[Total No. of Pages : 2

100324 **51211**

Second B.P.Th. (2012) Examination, Summer - 2026 Phase - II

PHARMACOLOGY

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.*

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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) Explain the management of constipation and preventive measures.

b) Write the uses of Vitamin D.

c) Classify the bronchodilators used to treat asthma. Give 2 examples of each.

d) Explain the rational for combining Adrenaline with Lignocaine with adverse effect and contraindications for such combination.

e) Compare and contrast Ampicillin and Amoxicillin.

f) Enumerate different types of drug antagonisms with one example of each.

[5×5=25]

2. Short Answer Questions (Solve any 5 out of 6) :

a) Discuss the MOA uses and ADR of PPI. Add a note on the treatment of H. Pylori infection.

b) Write short note on Transdermal route.

c) Classify oral hypoglycemic drugs. Write difference between Biguanides & Sulfonylureas mentioning mechanism of action, ADRs and uses of both.

d) Classify Anti Epileptic Drugs. Write the mechanism of action, uses and side effects of Phenytoin.

e) What are side effects of prolonged gluco-corticoid therapy? How can you reduce/prevent them?

f) Classify Diuretics. Write Uses and Mechanism of action of Hydrochlorothiazide.



[Total No. of Pages : 2

100328

Second B.P.Th. (2012) Examination, Summer - 2026 Phase - II

PSYCHIATRY (INCLUDING PSYCHOLOGY)

Total Duration : 2 Hours | Total Marks : 40

Instructions :

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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 the 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 (any *five* out of six) : **[5×3=15]**

a) Describe any three stages given in Piaget's theory of Cognitive development.

b) Discuss day to day life application of Gestalt principle.

c) Amit hits his dog whenever he gets scolding by his father, recognize the defense mechanism.

d) What is Reinforcement? Discuss Different types of reinforcements.

e) Define Psychology and explain what is Behaviour?

f) Write subtypes of Long term Memory.

2. Short Answer Questions (any five out of six) : [5×5=25]

a) Write a short note on Possible causes of Personality Disorders.

b) Write a short note on Mood Disorders.

c) Write a short note on Electroconvulsive Therapy (ECT).

d) Write a short note on Generalized Anxiety Disorder.

e) Write a short note on Pervasive Developmental Disorder (PDD).

f) Explain Geriatric Psychiatry and its importance.



[Total No. of Pages : 2

51216

100352

Second B.P.Th. (2012) Examination, Summer - 2026 Phase - II

KINESIOLOGY

Total Duration : 3 Hours

Total Marks : 80

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*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 Questions (Solve any 5 out of 6) : **[5×3=15]**

a) Discuss classification of muscles.

b) Write three difference between type 1 and type 2 fiber of muscles.

c) Discuss concave convex rule.

d) Discuss articular surfaces of sub-talar joint.

e) Note on carrying angle of elbow.

f) Write a note on classification of joints.

2. Short Answer Questions (Solve any 5 out of 6) : **[5×7=35]**

a) Describe different types of grips and pinches of adult human hand.

b) Describe kinetics and kinematics of climbing up and down the stairs.

c) Explain kinematics and kinetics of lumbar spine.

d) Write a note on active insufficiency and passive insufficiency with example.

e) Explain the kinematics of tibiofemoral joint.

f) Describe the ligaments of wrist joint with their function.

SECTION - B (LAQ) (30 Marks)

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

a) i) Describe the articular surfaces of hip joint. [4]

ii) Describe its kinetics and kinematics. [8]

iii) Describe in detail why the cane is used on contra -lateral side in painful hip conditions. [3]

b) Describe human gait under following headings.

i) Phases of gait cycle. [5]

ii) Kinetics and kinematics of stance phase of gait in sagittal plane. [10]

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

a) Discuss knee joint in detail under following headings.

i) Articulations [5]

ii) Kinematics [5]

iii) Kinetics [5]

b) Discuss Kinematics and Kinetics of shoulder joint complex in detail and Write a note on Active and Passive stabilization of shoulder. [5+5+5]

[Total No. of Pages : 2

100320 **51214**

Second B.P.Th. (2012) Examination, Summer - 2026 Phase - II

KINESIOTHERAPY

Total Duration : 3 Hours Total Marks : 80

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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 Questions (Solve any 5 out of 6) : **[5×3=15]**

a) Contraindications for cervical traction.

b) Properties of Connective tissue.

c) Define types of Muscle Contraction with one example each.

d) Principles of stretching.

e) Define Neuromuscular coordination.

f) Enlist the causes for limited joint mobility.

2. Short Answer Questions (Solve any 5 out of 6) : [5×7=35]

a) Define effect and uses of Traction.

b) Define Functional Re-education. Explain progression from supine to sitting.

c) Describe in detail Pre crutch training.

d) Describe types of stretching with one example each.

e) Define Humidification. Explain different types and methods of delivery.

f) Describe various types of Expiratory breathing exercises.

SECTION - B (LAQ) (30 Marks)

3. Long Answer Questions (Solve any 1 out of 2) : [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. [5+4+6]

b) What is Active Cycle of Breathing Technique? Describe various Postural Drainage positions for left lung Enumerate contraindications for Postural Drainage. [4+6+5]

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

a) Define Posture. Describe standing postural analysis in Sagital and Frontal view both anteriorly and posteriorly. [3+12]

b) Discuss principles of Manual Muscle Testing. Write a note on trick movement. [10+5]

[Total No. of Pages : 2

100353 **51213**

Second B.P.Th. (2012) Examination, Summer - 2026 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 (Solve any 5 out of 6): [5×3=15]

a) Describe Didynamic currents. State their therapeutic application.

b) State any 3 contraindications for the application of TENS.

c) Define Attenuation and Half value depth in Ultrasound therapy.

d) Discuss in brief, PUVA therapy used in treatment of Psoriasis.

e) Define Motor points.

f) Describe the types of electrodes used in Shortwave diathermy.

2. Short Answer Questions (Solve any 5 out of 6): **[5×7=35]**

a) Describe the use of biofeedback with suitable examples.

b) Explain principles of application of faradism under pressure for lower extremity.

c) Discuss the therapeutic uses of Infrared therapy.

d) Describe the Physiological effects of Ultra-violet rays for treatment of Vitiligo. Add a note on erythemal dose suitable for the same.

e) Describe the physiological effects of LASER.

f) State the principle of Iontophoresis, Enlist any 5 ions, with their polarity, effects & therapeutic application.

SECTION-B (LAQ) (30 Marks)

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

a) Explain in details, Strength Duration Curves (SDC) characteristics for a healthy innervated muscle. Explain the changes in SDC with denervation. **[8+7=15]**

b) Explain the various methods of Application of Therapeutic Ultrasound with their advantages and disadvantages. Add a note on Phonophoresis. State any 3 contraindications of Ultrasound. **[9+3+3=15]**

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

a) Define Beat Frequency in Interferential Therapy. Describe the Physiological & Therapeutic effects. Add a note on different Interference patterns produced. **[2+8+5=15]**

b) Describe the role of Electrotherapeutic equipment in various phases of Wound healing.