

Second B.P.T.H. (2012) Examination, Summer - 2021
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) Write a note on clinical uses of Organic Nitrates with examples.
- b) Define Biotransformation. Describe any two factors that modify it with suitable examples.
- e) Write a note on Diazepam.
- d) Give the rationale for the combination of Levodopa and Carbidopa in the treatment of Parkinsonism.
- e) Enumerate Sulfonylureas. Describe their anti-diabetic actions and adverse effects.
- f) Name Proton Pump Inhibitors. Explain the rationale for their use in Peptic Ulcer Disease.

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

[5 × 5 = 25]

- ✓ a) Classify Antihypertensive Drugs. Describe the role of hydrochlorthiazide in the management of hypertension. Enumerate its adverse reactions.
- b) Describe with the help of suitable examples five factors that modify drug action.
- ✓ c) Classify Analgesic Drugs. Describe the therapeutic uses of Aspirin.
- ✓ d) Describe in brief the medical management of Myasthenia Gravis giving reasons.
- ✓ e) Describe the therapeutic uses and adverse reactions of Glucocorticoids.
- ✓ f) Classify drugs used in Bronchial Asthma. Describe the mechanism of action and adverse effects of Salbutamol.



Second B.P.T.H. (2012) Examination, Summer - 2021
PATHOLOGY & MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 80

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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) Discuss in brief the etiopathogenesis and the morphological features of benign peptic ulcer disease.
 - b) Discuss the causes and complications of vitamin D deficiency.
 - c) Define neoplasia. Enlist the differences between benign and malignant tumors.
 - d) Briefly discuss the etiopathogenesis and pathological features of rheumatic heart disease.
 - e) Define meningitis. Enumerate the various organisms causing meningitis. Mention the CSF findings in tuberculous meningitis.
 - f) Describe briefly primary pulmonary tuberculosis.

2. Long answer question (any one out of two) : [1 × 15 = 15]
 - a) Define thrombosis. Describe aetiopathogenesis and pathology of thrombosis. Add a note on its complications.
 - b) Define and classify osteomyelitis. Describe aetiopathogenesis, pathological features and complications of pyogenic osteomyelitis.

SECTION - B (30 Marks)

(Microbiology)

3. Short answer question (any three out of four) : [3 × 5 = 15]
- a) Mention the differences immediate & delayed hypersensitivity.
 - b) Write a note on autoclave.
 - c) Describe briefly laboratory diagnosis of Typhoid.
 - d) Laboratory diagnosis of HIV infection.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Enumerate the organisms causing sexually transmitted diseases. Describe the laboratory diagnosis of syphilis.
 - b) Enumerate the malarial parasites. Describe the laboratory diagnosis of falciparum malaria.



Second B.P.TH. (2012) Examination, Summer - 2021
ELECTROTHERAPY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

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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) Classify Low Frequency Currents
 - ~~b)~~ Enumerate any 3 Coupling media along with their percentage of transmission
 - ~~c)~~ Define Rheobase and Chronaxie
 - ~~d)~~ Define a Motor Point
 - ~~e)~~ Enumerate any Three Dangers of Infrared Rays
 - ~~f)~~ Enumerate any 3 Properties of Laser

2. Short answer question (**any five out of six**) : [5 × 7 = 35]
 - ~~a)~~ Enumerate types of TENS. Explain any 2 in detail.
 - ~~b)~~ Classify IR. Describe the structure of Luminous and non luminous IR.
 - ~~c)~~ Explain different methods of application of SWD and contraindication for the same.
 - d)** Define MED in Ultra Violet Radiations and describe the technique for measuring the same in UVR.
 - e) What is faradic Re-education? Explain the technique in brief.
 - ~~f)~~ Describe in detail Pain Gate Theory and enlist modalities that use the same.

SECTION - "B" (LAQ) (30 Marks)

3. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Define Iontophoresis. State its principle and describe the method of application. State its dangers. Enumerate any 5 ions with their uses.
 - b) Define Ultrasound. Describe the physiological and therapeutic effects of ultrasound and write its contraindications.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Describe the physiological and therapeutic effects of interrupted galvanic currents. State its Indications and contraindications.
 - b) What is Faradism under pressure? State its Principle of application. Describe the technique and state its contraindications.



Second B.P.TH. (2012) Examination, Summer - 2021
KINESIOTHERAPY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

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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) Indications of joint mobility exercises.
 - b) Factors affecting posture.
 - c) Define balance & co-ordination.
 - d) Indications of functional re-education.
 - e) Measurement of axillary crutches.
 - f) Active Cycle of Breathing Technique.

2. Short answer question (any five out of six) : [5 × 7 = 35]
 - a) Preparation for crutch walking.
 - b) Physiological effects of hydrotherapy.
 - c) Principles of frankel's exercises.
 - d) Principles of home exercises.
 - e) Types, effects & uses of Traction.
 - f) Motor control.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Describe the principle and procedure of giving stretching exercises. Write in brief about stress strain curve.
 - b) Define Strength, Power and Endurance. What are the principles of Muscle Strengthening. Describe about the Progressive Resisted Exercise.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Describe principles of manual muscle testing. Describe the procedure of testing muscle strength.
 - b) Define Postural Drainage. Indications & Contraindications to Postural Drainage. Technique of application of Postural Drainage to lower lobes.



**Second B.P.TH. (2012) Examination, Summer - 2021
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 question (**any five** out of six) : [5 × 3 = 15]
 - ~~a)~~ Define Psychology and Explain the basic idea of structuralism?
 - ~~b)~~ Explain Erikson's first four stages of psycho social development.
 - c) Explain observational learning on basis of Bandura's Classic Bobo doll study.
 - ~~d)~~ Explain The Information-Processing Model in Memory.
 - ~~e)~~ Describe Maslow's hierarchy of needs in motivation.
 - ~~f)~~ What are the different types of conflicts?

2. Short answer question (**any five** out of six) : [5 × 5 = 25]
 - ~~a)~~ Describe different types of Mood disorders?
 - ~~b)~~ Write note on Phobia.
 - ~~c)~~ State how to carry out the systematic Mental status Examination.
 - ~~d)~~ Write a note on Delusional disorders.
 - ~~e)~~ States difference between delirium and dementia.
 - ~~f)~~ What are the main symptoms of schizophrenia?



Second B.P.T.H. (2012) Examination, Summer - 2021
KINESIOLOGY

Total Duration : 3 Hours

Total Marks : 80

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SECTION - "A" SAQ (50 Marks)

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

- ~~a)~~ Creep
- ~~b)~~ Young's modulus
- c) Contractile and non contractile structure
- ~~d)~~ Types of muscle fiber
- ~~e)~~ Ligaments of shoulder joint
- ~~f)~~ Convex and concave rule

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

- ~~a)~~ Passive insufficiency with suitable example
- ~~b)~~ Structure of a diarthrodial joint
- ~~c)~~ Stress strain curve
- ~~d)~~ Compare close chain with open chain and give examples of each
- ~~e)~~ Explain how immobilization affects joint structures
- f) Compare the composition, properties and function of ligaments with those of tendons

SECTION - "B" LAQ (30 Marks)

3. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Explain in detail about the kinematics of hip joint under the following headings :
- i) Movement of femur on pelvis
 - ii) Movement of pelvis on hip
 - iii) Coordination movement of hip, spine and femur
- [5 + 5 + 5]
- b) Explain in detail the kinematics and kinetics of the lumbar spine in detail. [8 + 7]

4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Explain in detail the biomechanics of wrist joint under the following headings :
- i) Osteokinematics
 - ii) Arthrokinematics
- [8 + 7]
- b) Explain in detail the biomechanics of the thorax under the following headings :
- i) Pump handle movements
 - ii) Bucket handle movements
 - iii) Muscles of inspiration and expiration
- [5 + 5 + 5]

