

B.P.T.[1st Prof.]

BF/2022/04

Anatomy

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Transitional epithelium (b) Hyaline cartilage
(c) Biceps brachii (d) Deep peroneal nerve
(e) Trachea

2. **Answer the following question upto 3 pages in length.**

[10]

Describe the attachments, nerve supply and actions of Muscles of Rotator's Cuff.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

(a) Describe the surface, borders, chambers and systemic circulation in Heart. Add a note on its blood supply.

OR

(b) Describe the boundaries and contents of Femoral Triangle.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Flexor retinaculum of hand
(b) Adductor's canal
(c) Fallopian tube
(d) Internal capsule
(e) Tympanic membrane

5. **Answer the following question upto 3 pages in length.**

[10]

Describe the ligaments and movements of Knee Joint.

6. **Attempt any ONE question out of the following two questions and answer should be upto 5 pages in length.**

[15]

(a) Describe the lobes, relations, peritoneal reflections and bare areas of Liver. Draw a well labelled diagram.

OR

(b) Discuss the gross anatomy, relations, blood supply, nerve supply and applied anatomy of Thyroid Gland.

B.P.T. [1st Prof.]

BF/2022/04

Physiology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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SECTION - A**[40 Marks]**

1. **Write short Notes on :** [5x3=15]
 (a) Facilitated diffusion (b) Myxedema
 (c) Pituitary Dwarf (d) Normal ECG
 (e) Neuromuscular Junction
2. **Answer the following question upto 3 pages in length.** [10]
 Describe the functions of Basal ganglia. Explain Parkinson's disease.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Nervous regulation of Respiration.
OR
 (b) Explain extrinsic pathway of Coagulation.

SECTION - B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 (a) Primary active transport
 (b) Micturition reflex
 (c) Lymphocytes
 (d) Synapse
 (e) Jaundice
5. **Answer the following question upto 3 pages in length.** [10]
 Role of hypothalamus in temperature Regulation.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Excitation contraction coupling.
OR
 (b) Explain function of the Thyroid hormones.
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B.P.T. [1st Prof.]

BF/2022/04

Biochemistry

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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SECTION - A**[40 Marks]**

1. **Answer the following(up to 5 lines in length):**

[5x3=15]

- (a) Explain the functions of Plasma membrane and also draw a labelled diagram.
 (b) Define Essential fatty acids and name them. What is their importance?
 (c) Define pH and methods of measurements of pH.
 (d) Write short note on Functions of mRNA.
 (e) Write short note on Starch and Glycogen.

2. **Answer the following question upto 3 pages in length.**

[1+5+4= 10]

Define Proteins and classify proteins with suitable examples. Add a note on structure of proteins.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Enumerate Fat soluble vitamins. Discuss the functions and deficiency manifestations of Vitamin A.

[6+6+3= 15]

OR

- (b) Describe the Gluconeogenesis and its substrates. What is its significance? How is it regulated?

[4+6+5= 15]

SECTION - B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Alkaptonuria
 (b) Hyponatremia and hypernatremia
 (c) Male sex hormones
 (d) Atherosclerosis
 (e) Isotopes and therapeutic uses of isotopes

5. **Answer the following question upto 3 pages in length.**

[10]

What are Isoenzymes? Give examples. What is their clinical significance?

6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Describe Electron transport chain and inhibitors of Electron transport chain (ETC).

[8+7= 15]

OR

- (b) Describe various mechanisms of regulation of blood glucose. Add a note on the Glucose Tolerance Test (GTT) and its interpretations.

[10+5= 15]

B.P.T. [1st Prof.]

BF/2022/04

Electrotherapy-I

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
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SECTION - A**[40 Marks]**

1. **All questions are compulsory. Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Structure and properties of Solid Matter
- (b) Adhesion
- (c) Viscosity
- (d) Conductors
- (e) Transformers

2. **Answer the following question upto 3 pages in length.**

[10]

Explain about biophysical applications of Electromagnetic spectrum.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Discuss First aid and initial management of Electric shock.

OR

- (b) Discuss about various Faradic- Intermittent direct current test.

SECTION - B**[40 Marks]**

4. **All questions are compulsory. Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Analogue display devices
- (b) Thermoionic valves
- (c) Capacitance
- (d) Milli ammeter
- (e) Use of fuses

5. **Answer the following question upto 3 pages in length.**

[10]

Discuss various durations and frequencies of Tens.

6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Write about indications, contraindications and precautions of UVR.

OR

- (b) Write about physiological and therapeutic effects of modified direct current.

B.P.T. [1st Prof.]

BF/2022/04

Exercise Therapy – I

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
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4.) **The Student must write O.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **All questions are compulsory. Answer up to 5 lines in length.** [5x3=15]
(a) Difference between Isometric and Isotonic contraction
(b) The centre of gravity
(c) Effleurage
(d) Resisted movement
(e) Agonist and antagonist
2. **Answer the following question upto 3 pages in length.** [10]
Discuss the Pelvic tilt in detail with the help of diagram.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe Motor learning, theories of motor control and its applications.

OR

- (b) Describe the Oxford classification of grading of muscle power. Write the muscle testing technique of biceps muscle.

SECTION – B

[40 Marks]

4. **All questions are compulsory. Answer up to 5 lines in length.** [5x3=15]
(a) Pulleys
(b) Axes and Planes
(c) Free exercises
(d) Stroking
(e) Swiss ball
5. **Answer the following question upto 3 pages in length.** [10]
Discuss relaxation, techniques of relaxation and its clinical application.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the types of movement, technique of application, indications, contraindications and its therapeutic effect.

OR

- (b) What is Soft tissue manipulation? Write physiological effect of soft tissue manipulation on various body systems. Also write indications and contraindications for effleurage and stroking.

B.P.T. [1st Prof.]

BF/2022/04

English

[New Scheme w.e.f. 2009]

Time: 1 ½ Hours

Max Marks: 40

- Note: 1.) *Attempt all questions.*
 2.) **ATTEMPT ALL QUESTIONS IN SINGLE ANSWER BOOK ONLY.**
 3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
 4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

1. a. **Correct the following sentences:** [5]

- i. Why are you making this wrong mistake?
- ii. The Sun sets at the West.
- iii. I have a pain at my hand.
- iv. The dog is wagging it's tail.
- v. We will sleep in a tent at night with the stars.

b. **Fill in the blanks with correct form from the words given in brackets:** [5]

- i. Let us finish _____ this meal. (cook)
- ii. Why are you always _____ at me ? (shout)
- iii. The class will be _____ the picnic ground at ten. (reach)
- iv. We had to stop _____ up the mountain. (climb)
- v. Your room in the hostel _____ a big sight. (present)

2. **Read the passage given below and make notes using suitable short forms:** [10]

When we survey our lives and efforts we soon observe that almost the whole of our actions and desires are bound up with the existence of other human beings. We notice that whole nature resembles that of the social animals. We eat food that others have produced, wear clothes that others have made, live in houses that others have built. The greater part of our knowledge and beliefs has been passed on to us by other people through the medium of a language which others have created. Without language and mental capacities, we would have been poor indeed comparable to higher animals.

We have, therefore, to admit that we owe our principal knowledge over the least to the fact of living in human society. The individual if left alone from birth would remain primitive and beast like in his thoughts and feelings to a degree that we can hardly imagine. The individual is what he is and has the significance that he has, not much in virtue of the individuality, but rather as a member of a great human community, which directs his material and spiritual existence from the cradle to grave.

3. Write a letter to your uncle, telling him about the course you have joined at the university and plans for the future, after you complete your studies. Describe the career you will follow. [10]

4. **Write an essay of about 100 words on any one of the following topics:** [10]

- | | |
|--------------------------|------------------------|
| a. The Role of Education | b. My Home |
| c. A Favourite Hobby | d. India and the World |

B.P.T. [2nd Prof.]

BF/2022/04

Pathology & Microbiology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **USE SEPARATE ANSWER BOOK FOR EACH SECTION.**
3.) **The Student must write Q.P. Code in the space provided on the Title page of the respective Answer Book.**

SECTION - A

[40 Marks]

QP Code: BTN201 [Pathology]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Poliomyelitis
(b) Dry gangrene
(c) Repair by primary healing (intention)
(d) Lepromatous leprosy
(e) Septic arthritis
2. **Answer the following question upto 3 pages in length.** [10]
Define Necrosis. Enumerate its types with examples.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe etiopathogenesis, morphological changes and complications of Atherosclerosis.
- OR**
- (b) What is Neoplasia, enumerate its causes and various routes of metastasis.

SECTION - B

[40 Marks]

QP Code: BTN202 [Microbiology]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Contributions of Paul Ehrlich
(b) Bacterial capsule and its functions
(c) Natural immunity
(d) Delayed hypersensitivity reaction
(e) Sporotrichosis
5. **Answer the following question up to 3 pages in length.** [10]
Name various organisms causing Urinary tract infection. Discuss the laboratory diagnosis of UTI.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Draw a labelled diagram of Rabies virus. Describe the pathogenesis and prevention of human rabies in detail.
- OR**
- (b) Name the arboviruses prevalent in India along with their vectors and discuss in detail about the pathogenesis, clinical features and laboratory diagnosis of Dengue virus.
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B.P.T. [2nd Prof.]

BF/2022/04

Pharmacology

[New Scheme w.e.f. 2009]

Time: 1½ Hours

Max Marks: 40

- Note:**
- 1.) **Attempt all questions.**
 - 2.) **ATTEMPT ALL QUESTIONS IN SINGLE ANSWER BOOK ONLY.**
 - 3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
 - 4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**
 - 5.) **Illustrate answer with suitable schematic diagrams.**

1. **Write short Notes up to 5 lines in length.** [5x3=15]

Attempt all the questions with suitable examples, if any.

- a. First pass metabolism
- b. Intravenous route of drug administration
- c. Morphine
- d. Treatment of acute drug poisoning
- e. Vitamin B

2. **Answer the following question upto 3 pages in length.** [10]

Classify Penicillin's. Discuss their mechanism of action & therapeutic uses.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]

- (a) Enumerate Anti-epileptic drugs. Discuss mechanism of action, therapeutic uses and side-effects of Valproic acid.

OR

- (b) Enumerate Corticosteroids. Discuss their therapeutic uses and adverse drug reactions.

B.P.T. [2nd Prof.]

BF/2022/04

Electro Therapy – II

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
4.) **The Student must write O.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
a. Principles of electro magnetic radiation
b. Ohm's law
c. Vector
d. Types of UVR
e. Faradic galvanic test
2. **Answer the following question upto 3 pages in length.** [10]
Write the production and biophysical effects of Ultrasound.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Define LASER. Write the principles, techniques of application and precautions for Laser therapy.
OR
b. Write the production and technique of application for MWD.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
a. Propagation
b. Electro magnetic force
c. Piezo electric effect
d. Motor unit potential
e. Pain
5. **Answer the following question upto 3 pages in length.** [10]
Write the therapeutic and physiological effects of Cryotherapy.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Write the principles, therapeutic effects and indications for Biofeedback.
OR
b. Explain Pain gate theory.

B.P.T. [2nd Prof]

BF/2022/04

Exercise Therapy – II

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
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4.) **The Student must write O.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
a. Static posture
b. Strength
c. Equilibrium- coordination test (two)
d. Bhujangasana
e. Stance phase
2. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail Walking aid? Describe Pre- crutch training in detail
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Overview of the mechanism of normal posture
OR
b. Aerobic exercises

SECTION – B

[40 Marks]

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
a. Elbow crutches: Indications and contraindications
b. One balance test
c. Passive insufficiency
d. Hold relax
e. Buoyancy
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail about Breathing techniques?
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Traction - physiological and therapeutic effects, indications and contraindication.
OR
b. Importance and effect of exercises to maintain Optimal health?
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B.P.T. [2nd Prof.]

BF/2022/04

Biomechanics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
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SECTION - A

[40 Marks]

1. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
(a) Significance of centre of gravity
(b) Osteokinematics and arthrokinematics
(c) Synovial fluid
(d) Saddle joint
(e) Double joint muscle
2. **Answer the following question upto 3 pages in length.** [10]
Discuss movement of scapula in abduction of Shoulder joint mentioning Phase I and Phase II.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Write in detail about the different phases in a Normal walking gait.

OR

- (b) Discuss in detail the flexion and extension mechanism of Spine.

SECTION - B

[40 Marks]

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
(a) Flat foot
(b) Mechanical disadvantages in levers
(c) Carrying angle
(d) Functional position of wrist
(e) Antigravity muscles
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the stability factors in Hip joint and their significance.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Normal posture in detail mentioning the factors affecting it.

OR

- (b) Write in detail the kinetics and kinematics of Elbow joint.

B.P.T. [2nd Prof.]

BF/2022/04

Sociology & Psychology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **USE SEPARATE ANSWER BOOK FOR EACH PART.**
3.) *The Student must write Q.P. Code in the space provided on the Title page of the respective Answer Book.*

SECTION - A

[40 Marks]

QP Code: BTN207

[Sociology]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) What are Psychosomatic disease, give two examples.
(b) What are key components of Culture, sociological examples.
(c) Briefly explain meaning of Social change.
(d) Define Gender socialization.
(e) Explain Social stratification. Give an example of open stratification.
2. **Answer the following question upto 3 pages in length.** [10]
Write an essay on the importance of Family and School as the agencies of Socialization.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Define the concept of Community. Critically analyse the role of community during COVID- 19.

OR

- (b) Write an essay on Juvenile delinquency as a social problems. What measures can be taken to prevent juvenile delinquency

SECTION - B

[40 Marks]

QP Code: BTN208

[Psychology]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Sources of frustration
(b) Cognitive restructuring
(c) Hallucinations
(d) Emotional needs of Bed- ridden patients
(e) Introspection method
2. **Answer the following question upto 3 pages in length.** [10]
How would you counsel an elderly person suffering from Loneliness and a State of Helplessness?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss the biological factors of Psychopathology in Children?

OR

- (b) Discuss the role of Heredity & Environment in Personality development?

B.P.T. [3rd Prof.]

BF/2022/04

Orthopaedics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Trigger thumb
- (b) Osgood schlatter disease
- (c) Morton's Neuroma
- (d) Frozen Shoulder
- (e) Spondylolisthesis

2. **Answer the following question upto 3 pages in length.**

[10]

Discuss in detail the clinical presentation, management and complications of Septic arthritis of HIP.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Discuss in detail the clinical presentation, management and complications of Tuberculosis of Spine.

OR

- (b) Discuss in detail the clinical presentation, management and complications of Supracondylar Fracture Humerus.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Dennis Brown Splint
- (b) Spina Ventosa
- (c) MRSA
- (d) Complications of both bone forearm fractures
- (e) Baker cyst

5. **Answer the following question upto 3 pages in length.**

[10]

Discuss in detail the clinical presentation, imaging and management of Traumatic Para paresis because of D-6 vertebra fracture.

6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Discuss in detail clinical presentation, imaging and management of Giant cell tumour of bone.

OR

- (b) Discuss in detail the clinical presentation, differential diagnosis and management of a patient with Rheumatoid arthritis.

B.P.T. [3rd Prof.]

BF/2022/04

General Medicine

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
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SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Diphtheria
(b) Clinical features of Vitamin E deficiency
(c) Drug used in Hypotension
(d) Acne
(e) Dyspepsia
2. **Answer the following question upto 3 pages in length.** [10]
Describe the etiology, clinical features and management of Valvular heart disease- specifically in elderly.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the clinical features, diagnosis and treatment of Hypothyroidism.
- OR**
- (b) Write the causes, clinical features and management of Guillain Barre syndrome.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Hepatitis B
(b) Clinical features of Bronchitis
(c) Hepatitis C
(d) Enumerate the causes of pericarditis
(e) Diagnosis of urinary calculi
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the etiology, clinical features and treatment of Cerebral palsy.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the causes, clinical feature, diagnosis and treatment of Hypertension.
- OR**
- (b) Describe the clinical feature, diagnosis and treatment of Muscular dystrophies.
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B.P.T. [3rd Prof.]

BF/2022/04

P.T. in Orthopaedic Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.
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4.) The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Classification of fractures on the basis of pattern
(b) What is the difference between strain and sprain
(c) Painful arc syndrome
(d) Plantar fasciitis
(e) Myositis ossificans
2. **Answer the following question upto 3 pages in length.** [10]
Discuss aetiology, clinical features, investigation and physiotherapy management of Ankylosing spondylitis.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the aetiology, clinical features and physiotherapy management of Periarthritis shoulder.

OR

- (b) Describe on-field causes and management of commonly occurring Sports injuries.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Clay- Shoveller fracture
(b) Stages of Fracture healing
(c) Scoliosis
(d) Complications of Supracondylar fracture
(e) Diagnostic criteria of Rheumatoid arthritis
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the principles of Tendon transfer injury and their physiotherapy management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the aetiology, clinical features, special tests and physiotherapy management of Meniscal injury.

OR

- (b) Describe the aetiology, clinical features, diagnostic criteria and physiotherapy treatment of Spondylolisthesis.
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B.P.T. [3rd Prof.]

BF/2022/04

P.T. in Medical Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
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4.) **The Student must write O.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Diagnostic criteria for R.A.
(b) Neurogenic Bladder
(c) Steriognosis
(d) Enthesis & Enthisopathy
(e) Ramsay Hunt syndrome
2. **Answer the following question upto 3 pages in length.** [10]
Discuss Leprosy, its deformities & PT management in detail?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Cerebral palsy in detail & add a note on developmental milestones?
- OR**
- (b) Discuss Osteoporosis in detail. Write down its causes & symptoms and add a note on its management?

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Rib Hump
(b) Shiny- Corner sign
(c) Pott- Puffy tumour
(d) Optic Neuritis
(e) Cock- up Toe deformity
5. **Answer the following question upto 3 pages in length.** [10]
Discuss PIVD and its PT management in detail?
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Stroke in detail? Write down the complication of Anterior cerebral artery stroke and add a note on its management?
- OR**
- (b) Discuss COPD in detail? Write down the mechanism of respiration. Add a note on management of COPD?
-

B.P.T. [3rd Prof.]

BF/2022/04

Research Methodology and Biostatistics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
4.) **The Student must write O.P. Code in the space provided on the Title page of the Answer Book.**

NOTE: SIMPLE CALCULATOR IS ALLOWED.

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Informed consent
- (b) When to use t- test
- (c) Difference between Parametric & Non- parametric tests
- (d) Characteristics of research
- (e) Define coefficient of correlation

2. **Answer the following question upto 3 pages in length.**

[10]

Describe the structure of research proposal in detail.

3. **Attempt any ONE question out of the following two questions and answer should be upto 5 pages in length.**

[15]

- (a) Discuss Hypothesis and its types with example.

OR

- (b) Discuss Sampling and its various techniques in detail.

SECTION - B

[40 Marks]

1. **Write short Notes up to 5 lines in length.**

[5x3=15]

- (a) Ethical issues in research
- (b) Level of measurement
- (c) Primary data and secondary data
- (d) Assumptions of analysis of variance
- (e) Importance of research in physiotherapy

2. **Answer the following question upto 3 pages in length.**

[10]

Discuss Experimental research design in detail.

3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.**

[15]

- (a) Discuss the schedule and questionnaire in detail.

OR

- (b) Discuss various tests of significance of means in detail.

B.P.T. [4th Prof]

BF/2022/04

General Surgery

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) MRI
(b) Gas gangrene
(c) Keloid
(d) Contracture
(e) Myopia
2. **Answer the following question upto 3 pages in length:** [10]
Stages of labour and its complications.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe different types of Head injury.
OR
(b) Describe different types of Chest injury.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Pressure sores
(b) Platelets
(c) Polypropylene suture
(d) Sinusitis
(e) Ingrowing toe nail
5. **Answer the following question upto 3 pages in length.** [10]
Retention of urine and its management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss different types of Skin malignancy and its management.
OR
(b) Describe different types of Anaesthesia and their procedures.
-

[B.P.T. [4th Prof]

BF/2022/04

Neurology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Erb's palsy
(b) Upper cross syndrome
(c) Glasgow coma scale
(d) Dementia
(e) Decorticate rigidity
2. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail about assessment and management of Cerebrovascular accident (CVA)?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss in detail about classification, clinical features and management of Cranial tumors?

OR

- (b) Discuss in detail about etiology, clinical features and management of Parkinson's disease?

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Saturday night palsy
(b) Facial palsy
(c) Schizophrenia
(d) Hypnosis
(e) Clasp knife phenomena
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail about etiogenesis, clinical features and management of Myasthenia gravis?
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss in detail about classification, clinical features and management of Myopathies?

OR

- (b) Discuss in detail about Psychotherapy and Electro convulsive therapy.
-

[B.P.T. [4th Prof]

BF/2022/04

P.T. in Neurological Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Lateral spinothalamic tract
(b) Central cord syndrome
(c) Types of ataxia
(d) Athetosis
(e) ATNR
2. **Answer the following question upto 3 pages in length.** [10]
Enlist the various complications associated with Head injury and discuss in detail about physiotherapy treatment in case of sudural haemorrhage.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Gullian Barre Syndrome in detail along with its physiotherapy management.

OR

- (b) Explain the assessment and physiotherapy treatment in case of Cerebellar Ataxia.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Internal capsule
(b) Muscle spindle
(c) Hemiplegic gait
(d) Carpal tunnel syndrome
(e) Alcoholic neuropathy
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail about Transverse myelitis and its physiotherapy management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss in detail about developmental milestones

OR

- (b) Discuss assessment and treatment of patient with Median nerve injury.
-

[B.P.T. [4th Prof]

BF/2022/04

P.T. in Surgical Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
4.) **The Student must write O.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Complications of chronic otitis media
(b) Differentiate between open abdominal surgery and endoscopic surgery
(c) Indications for CABG
(d) Primary brain injury
(e) Episiotomy
2. **Answer the following question upto 3 pages in length.** [10]
Explain in detail about PT management in case of BPPV.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Classify Rectal prolapse and discuss the role of physiotherapy in pelvic floor rehabilitation.
- OR**
- (b) Write in detail about Pneumonectomy and it's post operative physiotherapy management.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Post traumatic amnesia
(b) Maxillary sinusitis
(c) Hydrocephalus
(d) Rodent ulcer
(e) Escharotomy
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the role of physiotherapy in case of Sciatic nerve injury.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss the role of physiotherapy in Post natal period.
- OR**
- (b) Explain in detail about Varicose veins and it's physiotherapy management.
-

[B.P.T. [4th Prof]

BF/2022/04

Physiotherapy Ethics Administration & Rehabilitation

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
4.) **The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Define impairment
(b) AFO
(c) Define Ethics
(d) Phantom limb pain
(e) LS Belt
2. **Answer the following question upto 3 pages in length.** [10]
Describe the role of physiotherapy in Post COVID rehabilitation.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe various types of Upper limb orthotics with diagram and indications.
OR
(b) Illustrate various types of Spinal orthoses and their indications.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Tinnitus
(b) Ideal Stump
(c) Hearing Aid
(d) Sarcopenia
(e) Handicap
5. **Answer the following question upto 3 pages in length.** [10]
Describe various types of Wheelchair and their indication.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe assisted living facility for the patients with Neuromuscular disease. Its constitution and role of each member of the team.
OR
(b) Describe the rehabilitation facility for Cerebral stroke patients. Describe the team members with roles and responsibilities.
