

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

BF/2024/04

Anatomy**[Old Scheme prior to Admission 2021]****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.**

[5x3=15]

- | | |
|---------------------------|-----------------------|
| (a) Synovial Joint | (b) Hyaline cartilage |
| (c) Skeletal muscle | (d) Tendon |
| (e) Biceps Brachii muscle | |

2. **Answer the following question.**

[10]

Describe attachments, nerve supply and actions of Deltoid Muscle.

3. **Attempt any ONE question out of the following two questions.**

[15]

- (a) Describe gross anatomy, relations, blood supply, lymphatic drainage of Stomach.

OR

- (b) Describe gross anatomy, relations, blood supply, nerve supply and applied anatomy of Parotid gland.

SECTION – B**[40 Marks]**4. **Write short Notes.**

[5x3=15]

- (a) Thymus
- (b) Brachial artery
- (c) Transitional epithelium
- (d) Anastomoses
- (e) Saeorius muscle

5. **Answer the following question.**

[10]

Describe attachments, nerve supply and actions of Extraocular muscles.

6. **Attempt any ONE question out of the following two questions.**

[15]

- (a) Describe gross anatomy, relations, blood supply and applied anatomy of Thyroid gland.

OR

- (b) Boundaries and contents of Femoral triangle.

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

BF/2024/04

Physiology**[Old Scheme prior to Admission 2021]****Time: 3 Hours****Max Marks: 80**

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SECTION - A**[40 Marks]****1. Write short Notes on :****[5x3=15]**

- | | |
|--------------------------------|----------------------------|
| (a) Resting Membrane Potential | (b) Neuromuscular Junction |
| (c) Diffusion | (d) Growth hormone |
| (e) Formation of Hemoglobin | |

2. Answer the following question.**[10]**

Discuss Cardiac cycle with well labeled diagram.

3. Attempt any ONE question out of the following two questions.**[15]**

- (a) Discuss Glomerular Filtration Rate (GFR) and factors affecting it.

OR

- (b) Diffusion of gases through Respiratory Membrane.

SECTION - B**[40 Marks]****4. Write short Notes.****[5x3=15]**

- (a) Rickets
- (b) Taste buds
- (c) Functions of Testosterone
- (d) Properties of receptors
- (e) Vitamin D deficiency

5. Answer the following question.**[10]**

Discuss GIT hormones and its regulation in Gut wall.

6. Attempt any ONE question out of the following two questions.**[15]**

- (a) Discuss Muscle spindles and Golgi Tendon Organs and their roles in muscle control.

OR

- (b) Discuss Blood Groups and transfusion reaction.

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

BF/2024/04

Biochemistry**[Old Scheme prior to Admission 2021]****Time: 3 Hours****Max Marks: 80**

- Note:**
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 - 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. Answer the following:****[5x3=15]**

- (a) Explain the functions of Mitochondria and also draw a labelled diagram.
- (b) Define the functions of Albumin.
- (c) Write short note on Energy rich compounds.
- (d) Write short note on t- RNA.
- (e) Write short note on Polysaccharides.

2. Answer the following question.**[1+5+4 = 10]**

Define Lipids and classify lipids with suitable examples. List their functions in the body.

3. Attempt any ONE question out of the following two questions.**[15]**

- (a) Enumerate water soluble vitamins. Discuss the functions and deficiency manifestations of vitamin Thiamine and Niacin.

[6+6+3= 15]**OR**

- (b) Describe the steps of the HMP Shunt pathways. What is its significance? How it is regulated?

[4+6+5= 15]**SECTION – B****[40 Marks]****4. Write short Notes.****[5x3=15]**

- (a) Hartnup's disease
- (b) Glycogen storage diseases
- (c) Hypokalemia and hyperkalemia
- (d) Hypothyroidism
- (e) Balanced diet

5. Answer the following question.**[5+5= 10]**

Define Enzymes and enumerate the major classes of enzymes, giving one example for each. Discuss mode of action of enzymes.

6. Attempt any ONE question out of the following two questions.**[15]**

- (a) Describe denovo synthesis of Cholesterol and its regulations.

[8+7= 15]**OR**

- (b) Describe the important buffer system in the body. Explain role of various body buffers in the regulation of blood pH.

[10+5= 15]

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

BF/2024/04

Electrotherapy-I**[Old Scheme prior to Admission 2021]****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. **All questions are compulsory. Write short Notes.**

[5x3=15]

- (a) F/G Test
- (b) Thermionic valves
- (c) Joule's law
- (d) Properties of matter
- (e) Volt meter

2. **Answer the following question.**

[10]

Physical principles of Sound and its properties.

3. **Attempt any ONE question out of the following two questions.**

[15]

- (a) Write in detail about sources of UVR Generation with its doses.

OR

- (b) What is Modified direct current, write in detail about physiological effect with indication and contraindication.

SECTION - B**[40 Marks]**

4. **All questions are compulsory. Write short Notes.**

[5x3=15]

- (a) Faradic under pressure
- (b) DC circuits
- (c) Conductors
- (d) Pulse ratio
- (e) Short circuit

5. **Answer the following question.**

[10]

Physical principles of Light and its properties.

6. **Attempt any ONE question out of the following two questions.**

[15]

- (a) Write in detail about electrical stimulation & normal behavior of Nerve & Muscle tissue.

OR

- (b) Write Indication, contraindications and precautions of Moist heat.

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

BF/2024/04

Exercise Therapy – I
[Old Scheme prior to Admission 2021]**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. **All questions are compulsory.** [5x3=15]
(a) Mac queen method of Progressive resisted exercises
(b) Effect of mobilisation on joints
(c) Types of massages manipulations
(d) Active assisted exercises
(e) Anterior & posterior pelvic tilt
2. **Answer the following question.** [10]
Explain in detail principles, types and uses of Goniometry.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Classify Strengthening exercises. Write in detail about progressive resisted exercises.
- OR**
- (b) Explain Starting position in detail. Discuss standing position with individual muscle activity.

SECTION – B**[40 Marks]**

4. **All questions are compulsory.** [5x3=15]
(a) Treatment techniques for impaired balance
(b) Explain in detail about physiological & therapeutic effects of massage.
(c) Write an essay on suspension therapy for knee joint.
(d) Grades of MMT
(e) Setup of a gymnasium and its importance
5. **Answer the following question.** [10]
Describe Relaxation technique & factors contributing to muscle fatigue & tension.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Explain the principles of Suspension therapy & write the suspension therapy technique for Hip abduction & adduction movement.
- OR**
- (b) What is Manual muscle testing? Explain any two grading technique for assessing muscle power.
-

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

BF/2024/04

English**[Old Scheme prior to Admission 2021]****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. My new job starts in the April.
- ii. Can you give me some pen to write this cheque ?
- iii. The police is questioning two men.
- iv. The band is proud of their success.
- v. The man kept ask us for money.

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

- i. The girls are _____ tennis at the moment. (play)
- ii. Robert _____ the same bus every morning. (catch)
- iii. It was peaceful and the birds were _____. (sing)
- iv. we _____ a petrol station two minutes ago. (pass)
- v. We have _____ all the answers. (find)

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

Soil forms a thin layer on the surface of the earth, a few centimetres to several metres in thickness. It is thin layer of soil which produces the bulk of man's food supply. This layer upon which agriculture depends has required hundreds of years for its development but if it is misused it can be destroyed within a few years.

3. Write a letter to your father explaining to him why you think you are too young to get married. [10]**4. Write an essay of about 100 words on any one of the following topics: [10]**

- | | |
|---------------------------------|------------------------------|
| a. Health care system in Punjab | b. Youth festivals |
| c. Computer education | d. Physiotherapy as a career |

Pathology & Microbiology
[Old Scheme prior to Admission 2021]**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 on:** [5x3=15]
(a) Pernicious anaemia
(b) Marasmus
(c) Degeneration
(d) Hypovolaemic shock
(e) Haematocrit
2. **Answer the following question.** [10]
Define Inflammation. Types of inflammation. Write in detail on role of chemical mediators in acute- inflammation.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Define COPD. What are the conditions included in COPD. Write definition, types and morphology of Emphysema in detail.
- OR**
- (b) Define Embolism, its types and write etiopathogenesis and complications of Fat-Embolism in detail.

SECTION – B**[40 Marks]****QP Code: BTN202****[Microbiology]**

4. **Write short Notes on:** [5x3=15]
(a) Autoclave
(b) Tetanus toxin
(c) RNA viruses
(d) COVID - Vaccines
(e) Antibiotic resistance
5. **Answer the following question.** [10]
Discuss the etiopathogenesis of STD and lab diagnosis of such a case.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss in detail the Autoimmunity.
- OR**
- (b) Classify Fungus. Discuss in detail about the laboratory diagnosis of fungus.
-

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

BF/2024/04

Pharmacology**[Old Scheme prior to Admission 2021]****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 on:**[5x3=15]**

Attempt all the questions with suitable examples, if any.

- Advantages and disadvantages of IV drug administration
- Physical, chemical and physiological drug antagonism
- Apparent volume of distribution
- Vitamin A and its functions
- Idiosyncratic reactions

2. Answer the following question.**[10]**

Enumerate the drugs used in the treatment of Osteoporosis. Describe mechanism of action, uses and ADRs of bisphosphonates.

3. Attempt any ONE question out of the following two questions.**[15]**

- Classify Beta blockers. Discuss their mechanism of action, uses, ADRs and precautions in their use.

OR

- Classify various Anti-malarial drugs. Discuss mechanism of action, uses and ADRs of Chloroquin.

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

BF/2024/04

Electro Therapy – II
[Old Scheme prior to Admission 2021]**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 on:** [5x3=15]
a. Latent Heat
b. Electromotive Force
c. Convection
d. Microstreaming
e. Thermionic Emission
2. **Answer the following question.** [10]
Explain indications & contraindications in the application of Shortwave Diathermy.
3. **Attempt any ONE question out of the following two questions.** [15]
a. Discuss various methods of the application of Ultrasonic therapy.
OR
b. Write in detail about therapeutic and physiological effects of Microwave diathermy.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
a. Electromagnetic induction
b. Eddy currents
c. Radiation
d. Standing Waves
e. Magnetron
5. **Answer the following question.** [10]
Discuss the production of LASER and its properties.
6. **Attempt any ONE question out of the following two questions.** [15]
a. Explain in detail about Pain Gate theory.
OR
b. Explain about Lewis hunting reaction. Discuss various methods of application of Cryotherapy.
-

B.P.T. [2nd Prof]

BF/2024/04

Exercise Therapy – II
[Old Scheme prior to Admission 2021]**Time: 3 Hours****Max Marks: 80**

- Note:** 1.) *Attempt all questions.*
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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. **All questions are compulsory.** [5x3=15]
a. Arthrokinematics & Osteokinematics
b. Active insufficiency
c. Gutter Crutch
d. Active & Inactive Posture
e. Free Exercises
2. **Answer the following question.** [10]
What are the principles & techniques of Hydrotherapy.
3. **Attempt any ONE question out of the following two questions.** [15]
a. What are the Principles & Grades of Mobilization? Explain the techniques of Mobilization for Shoulder Joint.
OR
b. Difference between aerobic and anaerobic exercises.

SECTION – B**[40 Marks]**

4. **All questions are compulsory.** [5x3=15]
a. Enumerate any two Mat activities.
b. Grades of Mobilization
c. Therapeutic Gymnasium
d. Types of Hydrotherapy pool
e. Cadence
5. **Answer the following question.** [10]
Define Breathing and its pattern. Discuss the techniques of breathing.
6. **Attempt any ONE question out of the following two questions.** [15]
a. Explain principles & progression in Coordination Exercises.
OR
b. Define PNF ? Explain the principles & techniques of facilitation.

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

BF/2024/04

Biomechanics**[Old Scheme prior to Admission 2021]****Time: 3 Hours****Max Marks: 80**

- Note:** 1.) *Attempt all questions.*
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SECTION - A**[40 Marks]****1. All questions are compulsory.****[5x3=15]**

- (a) Line of gravity
- (b) Kinetics
- (c) Ball and Socket joint
- (d) Parallel Muscle fibre arrangement
- (e) Linear Force system

2. Answer the following question.**[10]**

Arthrokinetics and Osteokinetics of Shoulder Joint.

3. Attempt any ONE question out of the following two questions.**[15]**

- (a) Describe the type of lever in case of a person raising the heels on toes with axis as Metatarsophalangeal joint. Discuss the concept of Mechanical Advantage.

OR

- (b) Describe the muscle work at Hip joint during Initial Contact (Heel strike) to Loading Response (Foot flat) during Sagittal plane analysis of Gait cycle.

SECTION – B**[40 Marks]****4. All questions are compulsory.****[5x3=15]**

- (a) Eccentric muscle work
- (b) Agonist action of a muscle
- (c) Step length
- (d) Active Insufficiency
- (e) Antero-Posterior Axis and its corresponding Plane

5. Answer the following question.**[10]**

Describe in detail Scapulo-Humeral Rhythm.

6. Attempt any ONE question out of the following two questions.**[15]**

- (a) Pelvic Tilt as a Determinant of Gait.

OR

- (b) Postural deviation In Genu Valgum and its long-term effects.

Sociology & Psychology
[Old Scheme prior to Admission 2021]**Time: 3 Hours****Max Marks: 80****Note: 1.) *Attempt all questions.*****2.) *USE SEPARATE ANSWER BOOK FOR EACH PART.*****3.) *The Student must write O.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.*****[5x3=15]**

- (a) Role of urban community in public health.
- (b) Influence of formal and informal groups on health and sickness.
- (c) Define culture, what are its components?
- (d) Alcoholism
- (e) Problems of disabled

2. *Answer the following question.***[10]**

What do you mean by socialization? Define the influence of social factor on personality?

3. *Attempt any ONE question out of the following two questions.***[15]**

- (a) Write in detail about the features of modern caste system and its trends.

OR

- (b) Who are social workers? What are the roles of medical social workers?

SECTION – B**[40 Marks]****QP Code: BTN208****[Psychology]****1. *Write short Notes.*****[5x3=15]**

- (a) Child psychology
- (b) Heredity vs environment
- (c) Superego
- (d) Substance Abuse
- (e) Geriatric Psychology

2. *Answer the following question.***[10]**

What is stress? Explain the physiological and psychological parameters of stressors?

3. *Attempt any ONE question out of the following two questions.***[15]**

- (a) What is Intelligence? How can we assess one's intelligence by various psychological tests?

OR

- (b) Explain the steps of experimental method which substantiate the position of psychology as a science?

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

BF/2024/04

Orthopaedics**[Old Scheme prior to Admission 2021]****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 on:****[5x3=15]**

- (a) Golfer's elbow
- (b) Trigger Finger
- (c) Arthrodesis
- (d) Kyphosis
- (e) Pott's Spine

2. Answer the following question.**[10]**

Write in detail about etiology, clinical features, patho-physiology and management of Acute osteomyelitis.

3. Attempt any ONE question out of the following two questions.**[15]**

- (a) Write in detail about mechanism of injury, grades and management of Anterior cruciate ligament sprain in the Knee joint.

OR

- (b) Write in detail about patho-physiology and management of osteoarthritis of Knee joint.

SECTION – B**[40 Marks]****4. Write short Notes on:****[5x3=15]**

- (a) Painful arc syndrome
- (b) Closed fracture
- (c) Klumpke's paralysis
- (d) Osteoclastoma
- (e) Sciatica

5. Answer the following question.**[10]**

Discuss about clinical features and management of Median nerve injury.

6. Attempt any ONE question out of the following two questions.**[15]**

- (a) Discuss in detail about pathophysiology, prevention, management and complications of Poliomyelitis.

OR

- (b) Classify Amputation. Write in detail about pre-operative and prosthetic management of the patient with Amputation Leg.

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

BF/2024/04

General Medicine**[Old Scheme prior to Admission 2021]****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 on:** [5x3=15]
(a) Deep vein thrombosis
(b) Achlasia cardia
(c) Causes of upper gastrointestinal bleeding
(d) Blue bloater and pink puffer
(e) Pancreatitis
2. **Answer the following question.** [10]
Definition, type, etiopathogeneins. clinical feature and management of pneumonia.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) What is Diabetes mellitus. write about classification, clinical features, management and complications of Diabetes mellitus.
- OR**
- (b) Define Anemia. What are its different types. How do you approach a case of Anemia.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) Acne
(b) Protein energy malnutrition
(c) Duchenne muscular dystrophy
(d) Jones criteria
(e) Motor Neuron Disease
5. **Answer the following question.** [10]
Define Rickets, write in Detail about pathogenesis, clinical features and management of Rickets.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) What is Myxoedema. Describe it's clinical features, diagnosis and treatment.
- OR**
- (b) Classify Congenital heart disease. Explain Tetralogy of fallot in detail.

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

BF/2024/04

**P.T. in Orthopaedic Conditions
[Old Scheme prior to Admission 2021]****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. **Write short Notes on:** [5x3=15]
(a) Complications of Fracture
(b) Retro Calcaneal Bursitis
(c) Special Test for Supraspinatus Tendinitis
(d) Painful arc syndrome
(e) Avascular Necrosis
2. **Answer the following question.** [10]
What are the indications of spinal stabilization surgeries, write PT management of 45 yrs old women treated for Scoliosis.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Explain about the Physiotherapy assessment and management of Tennis elbow patient.
- OR**
- (b) Write in detail about the PT management of Grade II ACL injury managed conservatively.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) Ortoloni's Test
(b) Principles of tendon transfer
(c) De Quervain's tenosynovitis
(d) Adson test
(e) Ilizarov Technique
5. **Answer the following question.** [10]
Explain check out procedure for above elbow Prosthesis ? also write characteristics of an Ideal stump?
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Write assessment and management of a football player undergone ACL reconstruction.
- OR**
- (b) Define Periarthritis of shoulder with its aetiopathogenesis, also give details of different stages with clinical presentation.
-

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

BF/2024/04

**P.T. in Medical Conditions
[Old Scheme prior to Admission 2021]****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. **Write short Notes on:** [5x3=15]
(a) Gaenslen test
(b) Huntington's disease
(c) Risser sign
(d) Xerophthalmia
(e) Phlebitis
2. **Answer the following question.** [10]
Discuss Poliomyelitis and write down its PT management.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Briefly discuss Leprosy, its pathogenesis, clinical features and PT management in detail?
- OR**
- (b) Discuss Parkinsonism, its clinical features & PT management in detail?

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) Diagnostic criteria for Rheumatoid arthritis
(b) Lepromin test
(c) Bell's Phenomenon
(d) Differentiate between Spasticity & Rigidity
(e) Trigger finger
5. **Answer the following question.** [10]
Briefly discuss Pleural diseases and its management in detail?
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss any four common heredity disorders & write down its management in detail?
- OR**
- (b) Discuss Carcinomas of Respiratory tract & write down its management in detail?
-

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

BF/2024/04

Research Methodology and Biostatistics
[Old Scheme prior to Admission 2021]**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 on:****[5x3=15]**

- (a) Write in brief about review of literature.
- (b) Ethical issues in research
- (c) Sampling errors
- (d) Experimental research design
- (e) Levels of measurement

2. Answer the following question.**[10]**

Discuss various points of differentiation between schedule and questionnaire in detail.

3. Attempt any ONE question out of the following two questions.**[15]**

- (a) Discuss the steps involved in structure of research proposal.

OR

- (b) Discuss validity, its types and factors influencing validity.

SECTION – B**[40 Marks]****1. Write short Notes on:****[5x3=15]**

- (a) Quota sampling
- (b) Uses of ANOVA
- (c) Characteristics of research
- (d) Paired and unpaired t- test
- (e) Linear and non-linear correlation

2. Answer the following question.**[10]**

Differentiate between parametric and non- parametric tests.

3. Attempt any ONE question out of the following two questions.**[15]**

- (a) Discuss different types of research.

OR

- (b) Define median and write its merits. Calculate the median from the following data:

27, 17, 25, 42, 29, 27, 25, 27, 22

B.P.T. [4th Prof]

BF/2024/04

General Surgery
[Old Scheme prior to Admission 2021]**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 on:** [5x3=15]
 - (a) Hypovolemic shock
 - (b) Jaundice
 - (c) F.F. P.
 - (d) Septicaemia
 - (e) Leprosy
2. **Answer the following question:** [10]

Causes of abdominal pain and management of Renal pain.
3. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Enumerate various types of Thoracic incisions and common surgical procedures in thorax.

OR

 - (b) Discuss Shock, its types, clinical features and management of Hemorrhagic shock.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
 - (a) U.T.I.
 - (b) Colour Blindness
 - (c) Tonsillitis
 - (d) A.S.O.M.
 - (e) Septal Deviation (DNS)
5. **Answer the following question.** [10]

Discuss causes of Pelvic Inflammatory Disease (PID) and its management.
6. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Enlist various types of Abdominal incisions and discuss wound dehiscence.

OR

 - (b) Discuss indications of Lower Segment Caesarean Section (L.S.C.S.) and its complications.

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

BF/2024/04

Neurology**[Old Scheme prior to Admission 2021]****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 on:** [5x3=15]
(a) Gait changes in Parkinson's disease
(b) Obsessive Compulsive disorder
(c) Functional areas of cerebrum
(d) Orthotic aids in Poliomyelitis
(e) Athetosis
2. **Answer the following question.** [10]
Discuss in detail clinical manifestations, assessment and management of cerebral palsy patients.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss about entrapment neuropathies and its assessment and management in detail.

OR

- (b) Discuss the classification of peripheral nerve disorders, its clinical manifestations and management in detail.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) Dementia
(b) Depression
(c) Cerebellar ataxia
(d) Romberg's test
(e) Autonomic dysreflexia
5. **Answer the following question.** [10]
Differentiate between static and dynamic balance with special reference to its assessment and physiotherapy management.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss in detail about physiotherapy management of Multiple sclerosis.

OR

- (b) Discuss in detail about clinical manifestations, assessment, diagnosis and management of meningitis?
-

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

BF/2024/04

**P.T. in Neurological Conditions
[Old Scheme prior to Admission 2021]****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 on:** [5x3=15]
(a) Meningitis
(b) Carpal tunnel syndrome
(c) COG control training
(d) CTSIB
(e) Hypokinesia
2. **Answer the following question.** [10]
Write about physiotherapy assessment and management of 45 year old female presenting with ulnar nerve palsy (neuropraxia) at the level of elbow.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Write in detail about sensory component assessment of nervous system.

OR

- (b) Write in detail about assessment and management strategies in a 2 year old child diagnosed with DMD.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) CSF Pressure
(b) Writers cramp
(c) Pressure sores
(d) Dynamic splints
(e) FES
5. **Answer the following question.** [10]
Write about physiotherapy assessment and management for improving balance in a 55 year old male presenting with Parkinson's disease at stage 2 of Hoehn and Yahr scale.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Write in detail about assessment and intervention strategies to improve gait function in a 60 year old male diagnosed with anterior cerebral artery stroke. The duration of stroke is 1 month old.

OR

- (b) Write in detail about assessment and management strategies in a 25 year old school teacher with early stages of amyotrophic lateral sclerosis.

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

BF/2024/04

**P.T. in Surgical Conditions
[Old Scheme prior to Admission 2021]****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 on:** [5x3=15]
(a) Rhinitis
(b) Tracheostomy
(c) Tympanoplasty
(d) Endoscopy
(e) Kocher's Incision
2. **Answer the following question.** [10]
Describe etiology, pathophysiology and physiotherapy management of Pressure Sores.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Write in detail about pathophysiological changes and physiotherapy management of Burn patients.
- OR**
- (b) Write in detail about Reconstructive surgery used in Nerve repairing with complete rehabilitation.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) Sunderland's classification
(b) Glasgow Coma Scale
(c) Mercedes Benz Incision
(d) Staging of pressure sore
(e) Cholecystectomy
5. **Answer the following question.** [10]
Describe in detail Thoracotomy procedure with pre and post operative rehabilitation.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss in detail about Stereotaxic reconstructive surgery of Brain with rehabilitation.
- OR**
- (b) Write in detail about indications, contraindications and criteria for Heart Transplantation with principle of physiotherapy management after Heart transplantation.

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

BF/2024/04

**Physiotherapy Ethics Administration & Rehabilitation
[Old Scheme prior to Admission 2021]****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 on:** [5x3=15]
(a) Aeroplane Splint
(b) Gutter Crutch
(c) Hemiparesis
(d) 4-point gait
(e) Cervical orthosis
2. **Answer the following question.** [10]
Explain in detail the scope of practice and professional standards in physical therapy profession.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Explain principles and mechanisms of communication including speech and hearing. Write about indications and methods/exercise prescribed in vestibular rehabilitation.

OR

- (b) Explain in details rules of professional conduct, responsibility and confidentiality in the profession of physical therapy.

SECTION – B**[40 Marks]**

4. **Write short Notes on:** [5x3=15]
(a) Sale of goods and advertising in profession of physical therapy
(b) Philosophy and philosophical statement in physical therapy
(c) IADL's
(d) Milwaukee brace
(e) Mentally subnormal
5. **Answer the following question.** [10]
Explain principles of vocational rehabilitation in disabled individuals and various legislative frameworks/ acts established in India for disability.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Explain the difference between orthosis, splints and prosthesis. Explain in detail about the principles of orthosis application, fit and adjustment of HKAFO AND AFO.

OR

- (b) Explain in detail professional and government licensing, protection from malpractice claims and role of accreditation in profession of physical therapy.
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