

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

BF/2023/03

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 up to 5 lines in length.** [5x3=15]
(a) Cardiac muscle (b) Ligament
(c) Trapezius muscle (d) Radial nerve
(e) Eye ball
2. **Answer the following question upto 3 pages in length.** [10]
Describe the attachments, nerve supply and actions of Serratus Anterior Muscle.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe Intercostal Muscles under following headings:
(i) Name the muscles (ii) Attachments
(iii) Nerve supply (iv) Applied anatomy of intercostal space

OR

- (b) Describe the boundaries and contents of Adductor canal.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Cubital Fossa
(b) Femoral artery
(c) Testis
(d) Thalamus
(e) Palatine tonsil
5. **Answer the following question upto 3 pages in length.** [10]
Describe Quadriceps muscles under following headings:
(i) Name muscles (2) Attachments (3) Nerve supply
6. **Attempt any ONE question out of the following two questions and answer should be upto 5 pages in length.** [15]
(a) Describe the surfaces, relations and peritoneal relations of Pancreas Gland. Draw a well labelled diagram.

OR

- (b) Discuss the gross anatomy, relations, blood supply, nerve supply and applied anatomy of Submandibular Gland.
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Physiology**[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. **Write short Notes on :** [5x3=15]
(a) Osmosis (b) Cell membrane
(c) Regulation of Heart rate (d) Draw and label a normal ECG
(e) Addison's disease
2. **Answer the following question upto 3 pages in length.** [10]
Discuss functions of Cerebellum.
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) Intrinsic pathway of Coagulation

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Platelets
(b) Diffusion
(c) Jaundice
(d) Micturition Reflex
(e) Eosinophil
5. **Answer the following question upto 3 pages in length.** [10]
Role of hypothalamus in body temperature regulation.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Functions of Thyroid hormones.
OR
(b) Excitation contraction in Skeletal muscle.
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Biochemistry**[Old Scheme prior to Admission 2021]****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) Enzyme specificity.
- (b) Vitamin A Toxicity
- (c) Plasma Protein
- (d) Homopolysaccharides with examples.
- (e) Biological membrane.

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

[1+3+6= 10]

Define Enzymes, functions of enzymes. Add a note on importance of enzyme in health and diseases.

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

[15]

- (a) Define β oxidation of fatty acids. Give energetics. What are the co-enzymes required for β oxidation.

[6+4+5= 15]**OR**

- (b) What are Vitamins. Classify vitamins. Discuss Vitamin D, functions and its deficiency manifestation.

[1+5+4+5= 15]**SECTION - B****[40 Marks]**

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

[5x3=15]

- (a) Isotopes used for thyroid scanning
- (b) Mechanism of action of Group-I hormones
- (c) Dehydration
- (d) Anion gap
- (e) Basal metabolic rate

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

[10]

Describe chemistry and metabolism of Bone.

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

[15]

- (a) Describe composition of Nerve tissue. Add a note on chemical mediators of Nerve activity.

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

- (b) Describe Oxidative Phosphorylation. Discuss High energy compounds. Add a note on Uncouplers.

[5+5+5= 15]

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 up to 5 lines in length.** [5x3=15]
(a) Specific heat
(b) Convection
(c) Pulse ratio
(d) Electromotive spectrum
(e) Fuse
2. **Answer the following question upto 3 pages in length.** [10]
Explain indications and contraindications for the application of Moist heat.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss various types of Lamps for the generation of Ultra Violet Rays.
OR
(b) Write in detail indications, contraindications and precautions for the use of Electrical heating pads.

SECTION - B**[40 Marks]**

4. **All questions are compulsory. Write short Notes up to 5 lines in length.** [5x3=15]
(a) Viscosity
(b) Conduction
(c) Voltmeter
(d) Electromagnetic induction
(e) Resistance
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the initial management of Electric shock.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Explain about the Dosimetry of Ultra Violet Radiation.
OR
(b) Write on S.D. Curve and its application in diagnosis.

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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. Answer up to 5 lines in length.** [5x3=15]
(a) Petrissage technique
(b) Levers in physiotherapy
(c) Muscle power
(d) Muscle tone
(e) Co- contraction
2. **Answer the following question upto 3 pages in length.** [10]
Describe Theories of motor control and its application.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the principle, techniques of application, indications, contraindications, precautions and uses of Suspension therapy.
- OR**
- (b) Describe the principle of Goniometry. Write the testing position and procedure for Knee Joint.

SECTION – B**[40 Marks]**

4. **All questions are compulsory. Answer up to 5 lines in length.** [5x3=15]
(a) Centre of Gravity
(b) Repetition maximum
(c) Free exercises
(d) Progressive resistance exercise
(e) Use of Swiss ball and dumbbells
5. **Answer the following question upto 3 pages in length.** [10]
Describe the types of movement, technique of application, indications, contraindications and its therapeutic effect.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe fundamental starting position and derived starting position.
- OR**
- (b) Describe the principle and grades of Manual muscle testing. Write on various testing position and procedure for Quadriceps muscle.
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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. The Company has brought some land, but then it sold it.

ii. We are be going to get a dog soon.

iii. The meeting will be start at seven.

iv. This computer belong to Savita.

v. I goes to lots of parties.

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

i. My grandmother _____ last year. (die)

ii. The accident _____ last weekend. (happen)

iii. My brother _____ sports. (like)

iv. At the moment I am _____ at a hotel. (Stay)

v. The President has _____ out of the building. (come)

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

Indian summers are the most dreaded of all seasons and the mere thought of their arrivals gets everyone sweating through their clothes. Sitting in an air-conditioned room may seem like a good solution but it is not possible to carry one wherever you go. Frequent power failures rule out source of relief. Apart from the heat problem, water shortage and forest fires are other characteristics of Indian summers. Under the trees, one can try to forget the heat and just relax.

3. Write a letter to your friend telling him about an interesting book you have recently read. [10]

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

a. Nursing Profession

b. Brain Drain

c. Rising Prices

d. Unemployment

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 up to 5 lines in length.** [5x3=15]
(a) Megaloblastic anaemia
(b) Infarction
(c) Free radical cell injury
(d) Miliary tuberculosis
(e) Red- Cell indices
2. **Answer the following question upto 3 pages in length.** [10]
Define Neoplasia. Types of Neoplasia and describe in details about Carcinogens.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Define Pneumonia; write on its classification, complications and Lobar-Pneumonia in detail.
OR
(b) Define Shock. Write on its classification and etiopathogenesis of Cardiogenic-Shock.

SECTION – B

[40 Marks]

QP Code: BTN202 [Microbiology]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Hand hygiene
(b) Active immunity
(c) Drug resistance
(d) Candidiasis
(e) AIDS
5. **Answer the following question up to 3 pages in length.** [10]
Define Hypersensitivity reactions. Describe in detail on Type IV hypersensitivity reaction.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe in detail about the methodology of blood sample collection and blood Culture testing.
OR
(b) Enumerate the virus causing Hepatitis and describe in detail about the laboratory diagnosis of hepatitis B.
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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 up to 5 lines in length.**[5x3=15]**

Attempt all the questions with suitable examples, if any.

- Intra- articular route of drug administration
- Drug antagonism
- Insulin preparations
- Management of anaphylactic shock
- Factors affecting Bioavailability

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

Discuss in brief the classification, mechanism of action and therapeutic uses of Benzodiazepines.

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

- (a) Classify Anti-tubercular drugs. Discuss in brief mechanism of action, therapeutic uses and ADR's of Rifampicin.

OR

- (b) Enumerate first line anti hypertensive drugs. Give a brief account of mechanism of action, therapeutic uses and contraindications of ACE inhibitors.

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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 up to 5 lines in length.** [5x3=15]
a. Beat frequency
b. Cavitation
c. Faradic Galvanic test
d. Lewis Huntington Reaction
e. Ohm's Law
2. **Answer the following question upto 3 pages in length.** [10]
Write on the production and technique of application for MWD.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Write on the production and biophysical effects of Ultrasound.
OR
b. Write on the techniques of application, indications and contraindications of LASER Therapy.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
a. Pain
b. EMG
c. Piezo Electric effect
d. Characteristics of Low frequency current
e. Induction
5. **Answer the following question upto 3 pages in length.** [10]
Write on the principles, therapeutic effects and indications of Biofeedback.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Write on the principles, therapeutic effect and indication of EMF.
OR
b. Write on the methods of application and indications of IFT.

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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. Answer upto 5 lines in length.** [5x3=15]
a. Indication of Aerobic exercises
b. Maximum heart rate
c. Difference between tightness & stiffness
d. Hemiplegic gait
e. Isometric contraction
2. **Answer the following question upto 3 pages in length.** [10]
Describe Energy sources used at different intensity levels, as well as at different duration of exercise.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Discuss the Postural changes during growth.
OR
b. Basic physiologic reaction to Postural faults.

SECTION – B**[40 Marks]**

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
a. Line of gravity
b. Balance
c. Walk test
d. FITT
e. Coughing
5. **Answer the following question upto 3 pages in length.** [10]
Discuss active cycle of Breathing.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Discuss various phases of GAIT cycle. Define RLA Gait.
OR
b. Discuss in detail Quadriceps strengthening.
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Biomechanics**[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. Answer upto 5 lines in length.** [5x3=15]
(a) Passive insufficiency
(b) Stress and strain curve
(c) Properties of cartilage
(d) Line of gravity and centre of gravity in human body
(e) Force velocity relationship
2. **Answer the following question upto 3 pages in length.** [10]
Composition of Muscle fiber.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Kinematics of SPINE.
- OR**
- (b) Write in detail about Motions of Scapula.

SECTION – B**[40 Marks]**

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
(a) Factors responsible for Imbalance in Dynamic posture
(b) Articulations of Rib Cage
(c) Concurrent force system
(d) Role of Biomechanics in physiotherapy
(e) Muscles affecting Elbow joint activity
5. **Answer the following question upto 3 pages in length.** [10]
Describe functions of Intervertebral disc during motion and weight bearing.
6. **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 Kinematic gait analysis.
- OR**
- (b) Explain Knee joint complex and muscles associated with it.
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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 up to 5 lines in length.*****[5x3=15]**

- (a) Problems of women in employment
- (b) Influence of family on human personality
- (c) Social consciousness and perception of illness
- (d) Social deviance and disease
- (e) Socialization in rehabilitation of patients

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

Discuss in detail about the role of rural and urban communities in public health and its role in determining beliefs.

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

- (a) What do you mean by Social security? Discuss in detail about social legislation in relation to the disabled.

OR

- (b) Describe in detail about the role of primary and secondary groups in hospital and rehabilitation settings.

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

- (a) IQ
- (b) Persona
- (c) Serial vs Free recall
- (d) Approach- Avoidance conflict
- (e) Behavioural modification

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

What do you understand from Frustration? What are the sources of frustration? How does frustration lead to mental illness?

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

- (a) What is Psychology? Explain the methodology of psychology as an exact science?

OR

- (b) Describe the biological factors in the etiology of mental and behavioural problems in Childhood? -----

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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 up to 5 lines in length.** [5x3=15]
(a) Arthroplasty
(b) McMurray's test for knee joint
(c) Volkmann's Ischemic contracture
(d) Pulled elbow
(e) Avascular necrosis
2. **Answer the following question upto 3 pages in length.** [10]
Discuss Posterior dislocation of Hip (in adult) in detail.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Explain in detail about clinical features, diagnosis, management and complications of Septic arthritis.

OR

- (b) Classify Spine deformities and discuss Scoliosis in detail.

SECTION - B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Wrist drop
(b) Calcaneal spur
(c) Hallux valgus
(d) Torticollis
(e) Green stick fracture
5. **Answer the following question upto 3 pages in length.** [10]
Discuss Fracture healing in detail and enlist various factors affecting fracture healing.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Explain in detail about causes, clinical features, diagnosis, management of TB Spine.

OR

- (b) Discuss in detail about Congenital Dislocation of Hip (CDH).
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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 up to 5 lines in length.** [5x3=15]
(a) Psoriasis
(b) Venereal diseases
(c) Iron deficiency anaemia
(d) Cirrhosis of Liver
(e) Types of Heart sounds
2. **Answer the following question upto 3 pages in length.** [10]
Discuss etio- pathogenesis, types and clinical manifestation of Ascites.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Write on etio- pathogenesis, clinical features and management of Congestive heart failure.
- OR**
- (b) Describe Vitamin B₁₂ deficiency developmental disorders, clinical manifestations and principles of management.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Empyema
(b) Modes of prevention for communicable diseases
(c) Dementia
(d) Ventricular septal defect
(e) Leonine facies
5. **Answer the following question upto 3 pages in length.** [10]
Discuss etio- pathogenesis, clinical manifestations and management of Downs Syndrome.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe etio- pathogenesis, clinical manifestations and management of Hyperthyroidism.
- OR**
- (b) Describe pathogenesis, classification, modes of burns, clinical features and management of Burns.
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**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.**
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) Methods of fracture immobilization
(b) Osteotomy around Knee joint
(c) Supracondylar Fracture Humerus in Children
(d) Factors affecting fracture union
(e) Internal derangement of Knee
2. **Answer the following question upto 3 pages in length.** [10]
Write in detail the mechanism of Injury and types of fracture neck of femur. Discuss physiotherapy management of a 85 years old female with fracture neck of femur.
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 the clinical features and assessment of Cervical Spondylosis. Discuss physiotherapy management of a 65 years old female with pain in the neck and parascapular region with forward head posture.

OR

- (b) Write in detail the pathogenesis and clinical features of Tuberculosis of Spine. Discuss Red flags and physiotherapy management of a patient with Tuberculosis of Lumbar Spine.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Medial meniscal tear
(b) Retro- listhesis
(c) Congenital Torticollis
(d) Perthes disease
(e) Lumbar lordosis
5. **Answer the following question upto 3 pages in length.** [10]
Write in detail about Arthroplasty and its indications. Discuss post operative Total Hip Joint Replacement (THR) physiotherapy management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Write in detail the aetiology, clinical features and physical test for Scoliosis. Discuss physiotherapy management in a 15 years old boy with Dorsal Spine Scoliosis (convexity towards right side with COBB'S angle of 23°).

OR

- (b) Write in detail the causes of above Knee Amputation. Describe post amputation complications, and stump dynamic strengthening exercises for a patient with above knee amputation.
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**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.**
 - 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) Cobb's angle
 - (b) Pump handle movement
 - (c) Caplan's syndrome
 - (d) Apraxia
 - (e) Haemoptysis
2. **Answer the following question upto 3 pages in length.** [10]

Discuss Emphysema in detail & plan a rehabilitation programme for the same?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Explain RA in detail & write down its PT management?

OR

 - (b) Describe clinical features & PT management of Ischemic stroke?

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Claw- hand
 - (b) Gower's sign
 - (c) Reflex sympathetic dystrophy
 - (d) Brudzinski's sign
 - (e) Post-polio residual syndrome
5. **Answer the following question upto 3 pages in length.** [10]

Discuss Ankylosing Spondylosis in detail and write down its PT management?
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) What do you understand by Congestive heart failure? Discuss cardiac rehabilitation in detail?

OR

 - (b) Describe GB syndrome? Write down the clinical feature & PT management for the same?

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

BF/2023/03

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 up to 5 lines in length.** [5x3=15]
(a) Assumptions of Chi-square
(b) Difference between Schedule and Questionnaire
(c) Importance of biostatistics in physiotherapy
(d) When to use ANOVA?
(e) Limitations of research
2. **Answer the following question upto 3 pages in length.** [10]
Differentiate between Parametric and Non-parametric tests.
3. **Attempt any ONE question out of the following two questions and answer should be upto 5 pages in length.** [15]
(a) Discuss Validity, its types and factors affecting it.

OR

- (b) Discuss different types of research with example.

SECTION – B**[40 Marks]**

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) List the common statistical tools used in physiotherapy
(b) Paired t-test and Unpaired t-test
(c) Steps involved in Research process
(d) Range deviation
(e) Compare mean, median and mode
2. **Answer the following question upto 3 pages in length.** [10]
Discuss the importance of Tabulation of data.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe structure of research proposal in detail.

OR

- (b) What is Probability sampling method? Discuss the advantages and limitations of any two probability sampling method.
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B.P.T. [4th Prof]

BF/2023/03

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 up to 5 lines in length.** [5x3=15]
 - (a) Dermoid cyst
 - (b) Ureteric colic
 - (c) Infections of middle ear
 - (d) Breast abscess
 - (e) Phimosis
2. **Answer the following question upto 3 pages in length:** [10]

Discuss Cardiac resuscitation.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Describe different type of Fractures.

OR

 - (b) Discuss different types of Skin grafting.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) UTI
 - (b) Universal donor of blood
 - (c) Paronychia
 - (d) Episiotomy
 - (e) Conjunctivitis
5. **Answer the following question upto 3 pages in length.** [10]

Discuss Abdominal wall muscles.
6. **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 different types of Haemorrhage and their management.

OR

 - (b) Give details of Cervical lymphadenopathy.

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

BF/2023/03

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 up to 5 lines in length.** [5x3=15]
 - (a) Spasticity
 - (b) Transient ischaemic attack
 - (c) Charcot triad
 - (d) Muscle dystrophy
 - (e) UMNL
2. **Answer the following question upto 3 pages in length.** [10]

Discuss in detail about classification of Peripheral nerve injuries? Explain common peroneal nerve palsy.
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 blood supply of Brain and Spinal cord with labelled diagrams?

OR

 - (b) Discuss in detail about classification, assessment and management of Spina bifida?

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Psychosis
 - (b) Trigeminal neuralgia
 - (c) Becker's sign
 - (d) Shuffling gait
 - (e) Anterior spinothalamic tract
5. **Answer the following question upto 3 pages in length.** [10]

Discuss in detail about etiology, clinical features and management of Mental retardation
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 clinical features, assessment and management of Head injury.

OR

 - (b) Discuss in detail about clinical features, assessment and management of Guillain-Barre syndrome

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

BF/2023/03

**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 up to 5 lines in length.** [5x3=15]
(a) Raccoon sign
(b) Types of rigidity
(c) Circle of willis
(d) Posterior cord syndrome
(e) Chorea
2. **Answer the following question upto 3 pages in length.** [10]
Enlist the various complications in Spinal cord injury and discuss about Neurogenic bladder.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Syringomyelia in detail and explain its assessment and PT management.
- OR**
- (b) Discuss in detail about assessment and PT treatment in a case of Left side stroke.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Sites of pressure sores
(b) Trigeminal neuralgia
(c) Types of neurological gait
(d) STNR
(e) Tarsal tunnel syndrome
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail about Sub-acute combine degeneration of Spinal cord.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Spasticity in detail and write about its physiotherapy treatment.
- OR**
- (b) Discuss assessment and treatment of patient with Radial nerve injury.
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[B.P.T. [4th Prof]

BF/2023/03

**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 up to 5 lines in length.** [5x3=15]
(a) Ulcer
(b) Epley's maneuver
(c) Indications for thoracotomy
(d) Glaucoma
(e) Hernia
2. **Answer the following question upto 3 pages in length.** [10]
Discuss the indications, procedure and physiotherapy management Post Cholecystectomy.
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 pre and post- operative physiotherapy management following CABG.

OR

- (b) Write in detail about indications, procedure, complications and physiotherapy management Post Tracheostomy.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Glasgow coma scale
(b) Types of bladder dysfunction in Spinal cord injury
(c) Spasticity
(d) Deep vein thrombosis
(e) Antepartum haemorrhage
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail indications for Tendon transfer and its post-operative management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss antenatal and post-natal physiotherapy management in pregnant Mother. Discuss changes in normal posture in detail and the factors affecting it.

OR

- (b) Discuss the physiotherapy management of a patient admitted in ICU with a head injury following a road traffic accident.
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[B.P.T. [4th Prof]

BF/2023/03

**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 up to 5 lines in length.** [5x3=15]
(a) CDH Splints
(b) Axillary Crutches
(c) Paraplegia
(d) 2-point gait
(e) Sacroiliac orthosis
2. **Answer the following question upto 3 pages in length.** [10]
Explain History of physiotherapy alongwith the philosophical statements.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Explain principles and various models of rehabilitation, including functions/role of various rehab team members and statutory provisions, schemes of assistance for persons with disability.
OR
(b) Explain personnel and professional standards in physiotherapy and the principles of relationship between physical therapist and patient.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Consumer protection act
(b) Role of documentation in physical therapy
(c) Aphasia
(d) Dysarthria
(e) PTB Socket
5. **Answer the following question upto 3 pages in length.** [10]
Explain in detail professional and government licensing, accreditation and it's role in profession of physical therapy.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Explain the difference between orthosis and splints. Explain in detail about the principles of orthosis application, fit and adjustment of CRAIG-SCOTT orthosis.
OR
(b) Explain in detail assessment, classification and principles of rehabilitation for a mentally subnormal patient including both home based and community-based education programme.
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