

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

BF/2023/10

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) Smooth muscle
(c) Deltoid muscle
(e) Skin

- (b) Tendon
(d) Axillary nerve

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

Describe the attachments, nerve supply and actions of Pectoralis Major Muscle.

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

- (a) Describe the surfaces, borders, fissures of Lungs. Add a note on Broncho-Pulmonary Segments.

OR

- (b) Describe the boundaries and contents of Popliteal fossa.

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

- (a) Clavipectoral Fascia
(b) Femoral canal
(c) Uterus
(d) Cerebrum
(e) Septum of Nose

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

Describe the ligaments and movements of Hip Joint.

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

- (a) Describe the borders, surfaces, relations and peritoneal reflections of Stomach. Draw well labelled diagram.

OR

- (b) Discuss the gross anatomy of Larynx under the following headings:

- (1) Features (2) Cartilages (3) Muscles (4) Nerve Supply

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Physiology**[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) Active transport

(b) Rigor Mortis

(c) Hemolytic Anemia

(d) Photochemistry of vision

(e) Diabetes mellitus Type-I

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

Discuss with diagram Digestion and Absorption of Proteins, Carbohydrate & fats in human body.

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

(a) Discuss Molecular Mechanism of Skeletal Muscle Contraction.

OR

(b) Cardiac Output and its regulation. Also discuss Frank-Starling Mechanism of the heart.

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

(a) Function of Aldosterone

(b) Glomerular Filtration Rate (GFR)

(c) Rh Blood types

(d) Smell

(e) Spermatogenesis

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

Discuss Mechanism of Blood Coagulation including Extrinsic & Intrinsic Pathway.

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

(a) Discuss Cochlea and function of Organ of Corti with Diagram.

OR

(b) Discuss Basal Ganglia and their motor functions.

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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:****[5x3=15]**

- (a) Explain Phagocytosis.
- (b) Write short note on Lipoproteins.
- (c) Define Isoelectric pH.
- (d) Write short note on Glycosaminoglycans.
- (e) Explain Wald's visual cycle.

2. Answer the following question.**[2+8= 10]**

What are Enzymes. Explain mode of action of enzymes.

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

- (a) Describe Glycogenesis and its regulation. Discuss glycogen storage diseases.

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

- (b) Explain Cholesterol structure, synthesis, functions. Add a note on fatty liver.

[2+5+5+3= 15]**SECTION - B****[40 Marks]****4. Write short Notes.****[5x3=15]**

- (a) Role of Vitamin K
- (b) t- RNA
- (c) Genetic code
- (d) Dietary fibre
- (e) Disorders of thyroid function

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

Explain application of radio- activity in research. Add a note on hazards of radio- activity.

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

- (a) Describe Transamination process. Explain inborn errors of metabolism of proteins.

[5+10= 15]**OR**

- (b) Describe Balanced diet. Discuss protein energy malnutrition. Add a note on daily diet for a diabetic person.

[5+5+5= 15]

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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) Ohm's Law
- (b) Chronaxie
- (c) Adhesion
- (d) Elasticity
- (e) Amplifier

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

Explain indications and contraindications of the application of Iontophoresis.

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

- (a) Write in detail physiological and therapeutic effects of Ultraviolet Rays in detail.

OR

- (b) Describe Pain gate theory.

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

- (a) Radiation
- (b) Rheobase
- (c) Choke coil
- (d) Transformer
- (e) Electric Shock

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

Explain different types of Infra red rays and its IR generators.

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

- (a) Discuss indications, contraindications and precautions during the application of Tens.

OR

- (b) Write in detail about physiological effects of heat on human body.

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Exercise Therapy – I
[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 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) Brief resisted isometric exercise
- (b) Disadvantages of group therapy
- (c) Write any two principles of MMT.
- (d) 10 RM
- (e) What is muscle tone and postural tone.

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

Define Free exercises. Write down its classification, techniques, effects and uses of free exercises.

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

- (a) What are various principles of Relaxation? Describe any one method.

OR

- (b) Describe classification of Massage and explain any two techniques of massage in detail.

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

- (a) What are different types of the Goniometer.
- (b) Define effleurage technique.
- (c) Write four contraindication of mobilisation technique.
- (d) Name two types of resisted exercise.
- (e) What is "Break test"?

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

Explain starting positions in detail with the muscle activity for each.

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

- (a) Difference between Delorme and Oxford technique.

OR

- (b) Explain in detail about Suspension therapy, principles and types of suspension therapy.

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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 hotel were very quiet.
- ii. We pass a petrol station two minutes ago.
- iii. We tried to keep quite because the baby sleeping.
- iv. You came not to the club last night.
- v. I washed my hair when the phone rang.

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

- i. When I _____ the cupboard door, a pile of books fell out. (open)
- ii. Last month prices _____ up but this month they have fallen a little. (go)
- iii. She _____ ill three years ago. (be)
- iv. Mark never _____ breakfast. (eat)
- v. I am _____ the game. (enjoy)

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

Beggars are found everywhere in our Country – at places of tourist attraction, street corners, bus stands, railway stations, traffic lights, outside temples, gurudwaras, mosques and other places of worship. Most of these beggars are able-bodied and quite fit for work. But they find it much easier to live idle lives. They live an unproductive life and are parasites to society. There are too much takers for too few jobs and thus many are forced to remain unemployed. Attempts must be made to train beggars in some trade so that they may stand on their own feet and earn their living themselves.

3. Write a letter to your uncle who is ill. Offer him help in the letter of sympathy. [10]**4. Write an essay of about 100 words on any one of the following topics: [10]**

- | | |
|-------------------------|--------------------------------|
| a. Vocational Education | b. Role of Physiotherapy |
| c. Drug Addiction | d. Rising Crime in the society |

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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.** [5x3=15]
 - (a) Haematocrit
 - (b) Apoptosis
 - (c) Urinary casts
 - (d) Ghon- complex
 - (e) Scleroderma
2. **Answer the following question.** [10]

Define Emphysema, its types and etiopathogenesis of emphysema.
3. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Define Inflammation. Its types, cardinal signs and role of chemical mediators in acute- inflammation.

OR

 - (b) Define Meningitis. Its classification and difference between them in tabulated form.

SECTION – B

[40 Marks]

QP Code: BTN202

[Microbiology]

4. **Write short Notes.** [5x3=15]
 - (a) SARS
 - (b) Auto immunity
 - (c) MDR TB
 - (d) Oral thrush
 - (e) Widal test
5. **Answer the following question.** [10]

Define Food poisoning. Describe pathogenesis and lab diagnosis of Staphylococcal food poisoning.
6. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Describe in detail about the methodology of stool sample collection and culture testing.

OR

 - (b) Enumerate organisms in bone and joint infections and describe in detail about the laboratory diagnosis of Osteomyelitis.

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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.

[5x3=15]

Attempt all the questions with suitable examples, if any.

- a. Teratogenicity
- b. Efficacy and potency of a drug
- c. Levodopa – Carbidopa combination in Parkinsonism
- d. Therapeutic uses of corticosteroids
- e. Organophosphorus poisoning

2. Answer the following question.

[10]

Classify Non Steroidal Anti- Inflammatory Drugs (NSAIDS). Discuss in brief therapeutic uses and ADR's of Aspirin.

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

[15]

- (a) Enumerate the drugs used in Angina. Give a brief account of pharmacological actions, therapeutic use and routes of administration of Nitrates.

OR

- (b) Give a broad classification of Anti microbial agents with suitable examples. Discuss in brief how to prevent anti- microbial drug resistance.

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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.** [5x3=15]
a. Convection
b. Spasticity
c. Pain
d. Fraunhofer Zone
e. High Frequency Currents
2. **Answer the following question.** [10]
Explain indications & contraindications of IFT.
3. **Attempt any ONE question out of the following two questions.** [15]
a. Write in detail physiological & therapeutic effects of Ultrasonic therapy.
OR
b. Discuss principle of Biofeedback. Write about indications, contraindications & limitations for the use of Biofeedback.

SECTION – B**[40 Marks]**

4. **Write short Notes.** [5x3=15]
a. Wavelength
b. Scalds
c. Laser
d. Cavitation
e. Action Potential
5. **Answer the following question.** [10]
Explain the Cross fire method of application of SWD.
6. **Attempt any ONE question out of the following two questions.** [15]
a. Discuss indications, contraindications & precautions during the application of Ultrasonic therapy.
OR
b. Write in detail therapeutic effects and contraindications of Cold therapy on Human body.
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Exercise 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. **All questions are compulsory.** [5x3=15]
a. Hold relax
b. Define conditioning
c. Swing phase
d. Maitland grades of mobilization
e. Free exercises
2. **Answer the following question.** [10]
Describe the importance of "Functional re- education".
3. **Attempt any ONE question out of the following two questions.** [15]
a. Describe how would you assess 'Posture'.
OR
b. Explain the enhancement of Energy capacity for aerobic and anaerobic power training in Sportsmen.

SECTION – B**[40 Marks]**

4. **All questions are compulsory.** [5x3=15]
a. Enumerate pathological GAIT
b. Types of posture
c. Buoyancy
d. Types of balance
e. Determinant of GAIT
5. **Answer the following question upto 3 pages in length.** [10]
Principles of Postural Drainage.
6. **Attempt any ONE question out of the following two questions.** [15]
a. Define Balance and its types.
OR
b. Discuss Energy transfer during rest & exercise.

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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.**
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SECTION - A**[40 Marks]**

1. ***All questions are compulsory.*** [5x3=15]
(a) Cross bridge interaction
(b) Single joint muscle
(c) Coupling
(d) Closed pack position
(e) Why carrying angle is present. Explain it's significance.
2. **Answer the following question.** [10]
Explain in detail about Scapulohumeral rhythm.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Write in detail about Kinetics and Kinematics.

OR

- (b) Write in detail on Sagittal plane gait analysis.

SECTION – B**[40 Marks]**

4. ***All questions are compulsory.*** [5x3=15]
(a) Length tension relationship
(b) Muscles associated with Rib cage
(c) SLAC Wrist
(d) Zone of weakness in Hip joint
(e) Gluteus Medius Gait
5. **Answer the following question.** [10]
Describe factors responsible for Muscle weakness.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss muscles of Wrist complex and their function.

OR

- (b) Describe Osteokinematics of Ankle joint.
-

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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 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.** [5x3=15]

- (a) Influence of formal and informal groups on health and sickness
- (b) Social change and stress
- (c) Impact of culture on human behaviour
- (d) Population explosion
- (e) Factors of social change

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

Define Sociology and discuss application of knowledge of sociology in Physiotherapy.

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) Discuss various social health programmes and role of social planning in the improvement of health and rehabilitation.

SECTION - B

[40 Marks]

QP Code: BTN208

[Psychology]

1. **Write short Notes.** [5x3=15]

- (a) Hypothesis
- (b) Illusion
- (c) Frustration
- (d) Defense Mechanism
- (e) Behaviour modification

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

What is Emotion? Explain the physiological accompaniments of emotion?

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

- (a) Explain the specific reactions and needs of geriatric patients?

OR

- (b) What is Counselling? Explain the personal and professional qualities of counsellors?

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

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

- (a) Bone grafting
- (b) Carpal tunnel syndrome
- (c) Smith fracture
- (d) Osteogenesis imperfecta
- (e) Erbs palsy

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

Discuss Supercondylar fracture in detail in children and write a note on Volkmann's Ischemic contracture.

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

- (a) Explain in detail clinical features, diagnosis, management and complications of Osteoarthritis.

OR

- (b) Discuss in detail CTEV.

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

- (a) Foot drop
- (b) Bumper fracture
- (c) Olecranon bursitis
- (d) Cervical rib
- (e) Principles of tendon transfer

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

Write notes on: (a) Plantar Fascitis (b) Dequervain's disease

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

- (a) Classify Spinal injuries. Discuss in detail clinical presentation, management and complications associated with Cervical spine injuries.

OR

- (b) Discuss Colles fracture in detail and enlist various complications associated with Colles fracture.

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General Medicine**[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. **Write short Notes.** [5x3=15]
(a) Nephrotic syndrome
(b) Pellagra
(c) Congenital talipes equino- varus
(d) Atrial septal defect
(e) Mitochondrial inheritance
2. **Answer the following question.** [10]
Describe etiopathogenesis, clinical features and management of Endocarditis.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Describe etio-pathogenesis, clinical manifestations and management of Bronchial asthma.
- OR**
- (b) Describe anatomical, physiological and cognitive changes of aging and their social impact.

SECTION – B**[40 Marks]**

4. **Write short Notes.** [5x3=15]
(a) Shingles
(b) Paralysis agitans
(c) Causes of hyper pigmentation of Skin
(d) Features of obstructive jaundice
(e) Cardiac output, cardiac index, ejection fraction
5. **Answer the following question.** [10]
Discuss etio- pathogenesis, clinical features and management of Rickets.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Write down classification of congenital heart diseases and clinical manifestation and management of Ventricular Septal Defect.
- OR**
- (b) Write the causes, clinical features and management of Guillian Barre Syndrome.
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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.**
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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.** [5x3=15]
(a) Adhesive capsulitis
(b) Posterior cruciate ligament tear
(c) Genu recurvatum
(d) Sports injuries prevention
(e) Pes planus
2. **Answer the following question.** [10]
Write in detail the Level of Amputation in Lower extremity. Discuss the parts of below Knee prosthesis.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Write in detail clinical features, assessment and management of PIVD at C5/C6 with pain, numbness, tingling sensation and weakness down the arm, and forearm.
OR
(b) Write in detail the pathogenesis, clinical features, assessment and physiotherapy management of Tuberculosis of Hip joint.

SECTION – B**[40 Marks]**

4. **Write short Notes.** [5x3=15]
(a) Cervical rib
(b) Kyphosis
(c) Stump care
(d) Patellectomy
(e) Meniscectomy
5. **Answer the following question.** [10]
Write in detail the mechanism of Injury, clinical features and special tests for Medial meniscal injury. Discuss post operative physiotherapy management of a Medial Meniscectomy.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Write in detail aetiology, clinical features and physical test for Congenital Torticollis. Discuss physiotherapy management for a one years old boy with WRY NECK (rotation of Head towards right shoulder joint).
OR
(b) Write in detail the indications of Patellectomy. Discuss the immediate post operative physiotherapy management for a 25 years old elite athlete who had undergone patellectomy following injury in the patella.
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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.**
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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.** [5x3=15]
 - (a) METs
 - (b) Humidification
 - (c) Cardiac tamponade
 - (d) Lewis Triple response
 - (e) Chorea
2. **Answer the following question.** [10]

Explain Syringomyelia in detail.
3. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Discuss O.A in detail & write down its PT management?

OR

 - (b) Write various complications of anterior cerebral artery stroke & write down its PT management.

SECTION – B

[40 Marks]

4. **Write short Notes up.** [5x3=15]
 - (a) Intermittent - Claudication
 - (b) Pink - puffers
 - (c) Neurogenic - bladder
 - (d) Stereognosis
 - (e) Claw - hand
5. **Answer the following question.** [10]

Discuss Radial nerve palsy and its PT management in detail?
6. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Discuss Cerebral palsy, its types and symptoms & add a note on its PT management.

OR

 - (b) Discuss Left ventricular failure, its types & symptoms. Add a note on Cardiac rehabilitation?

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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]****[5x3=15]**1. **Write short Notes.**

- (a) Reliability
- (b) When is t-test used.
- (c) Disadvantage of mean over median
- (d) Limitations of scientific approach
- (e) Positive correlation

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

Describe review of literature and various steps involved in review of literature.

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

- (a) Discuss validity and its types in detail.

OR

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

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

- (a) Why is informed consent important in research?
- (b) Principles of measurement
- (c) Define Hypothesis
- (d) Difference between Parametric test and non-parametric test
- (e) Importance of research in clinical practice

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

Discuss experimental research design in detail.

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

- (a) Describe structure of research proposal in detail.

OR

- (b) Calculate the arithmetic mean for 100 students in science exam from the following data:.

Marks obtained	80	70	60	50	40	30	20
X							
No. of students	5	5	15	30	20	15	10
f							

B.P.T. [4th Prof]

BF/2023/10

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.** [5x3=15]
 - (a) Epidural Anaesthesia
 - (b) M.R.I.
 - (c) F.N.A.C.
 - (d) Sebaceous Cyst
 - (e) Decubitus Ulcer
2. **Answer the following question:** [10]

Define Shock; discuss causes and management of Haemorrhagic shock.
3. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Classification of Burns and management of superficial burns.

OR

 - (b) What is Wound infection, its types and what are its psychological impacts on the patient.

SECTION – B

[40 Marks]

4. **Write short Notes.** [5x3=15]
 - (a) Urinary incontinence
 - (b) Diabetic foot
 - (c) Myopia
 - (d) C.S.O.M.
 - (e) Adenoids
5. **Answer the following question.** [10]

Outline mechanism of Speech and list various speech disorders.
6. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Discuss stages of labor and complications of third stage of labor.

OR

 - (b) Discuss functions of Vestibular organs & its common disorders and role of physiotherapist.

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

BF/2023/10

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.** [5x3=15]
(a) Bell's Palsy
(b) Blood supply of spinal cord
(c) Nystagmus
(d) Hydrocephalus
(e) Electroconvulsive therapy
2. **Answer the following question upto 3 pages in length.** [10]
Define epilepsy and discuss its classification, clinical manifestations and physiotherapy management.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Discuss history, assessment and physiotherapy management of neurological patient.
OR
(b) Discuss assessment and physiotherapy management of cerebellar ataxic patient.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Brachial plexus
(b) Huntington's chorea
(c) Anxiety
(d) Syringomyelia
(e) Oculomotor nerve
5. **Answer the following question.** [10]
Discuss motor neuron disease, its types, clinical manifestations, diagnosis and management in clinical settings.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Describe trigeminal neuralgia, its clinical manifestations, diagnosis and management in detail.
OR
(b) Discuss in detail types, causes, assessment and management of psychoneurotic disorders
-

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

BF/2023/10

**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.** [5x3=15]
 - (a) Bell's sign
 - (b) Nerve conduction velocity study
 - (c) Positive romberg sign
 - (d) Intention tremor
 - (e) Rigidity
2. **Answer the following question.** [10]

Write on physiotherapy assessment and management of 45 year old female presenting with radial nerve palsy (neuropraxia) at the level of shaft of humerus.
3. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Write in detail about motor component assessment of nervous system.

OR

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

SECTION – B**[40 Marks]**

4. **Write short Notes.** [5x3=15]
 - (a) Intracranial Pressure
 - (b) Trigeminal Neuralgia
 - (c) Sensory ataxia
 - (d) Nystagmus
 - (e) Muscle atrophy
5. **Answer the following question.** [10]

Write in detail on mat activities for improving functional independence in a 28 year old male with multiple sclerosis.
6. **Attempt any ONE question out of the following two questions.** [15]
 - (a) Write physiotherapy assessment and management of 55 year old male presenting with complaints of cerebellar ataxia.

OR

 - (b) Write in detail assessment and management strategies in a 2 year old child diagnosed with Spina bifida aperta at the level of L5

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

BF/2023/10

**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 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) Seddon's Classification
(b) Mcburney Grid Iron Incision
(c) Inguinal Hernia
(d) Tetralogy of Fallot
(e) Segmentectomy
2. **Answer the following question.** [10]
Write on pre and post operative management of Ulnar Nerve Injury.
3. **Attempt any ONE question out of the following two questions.** [15]
(a) Describe in detail Coronary Angioplasty.
- OR**
- (b) Write in detail physiotherapy management of Craniotomy.

SECTION – B**[40 Marks]**

4. **Write short Notes.** [5x3=15]
(a) Otitis Media
(b) Chronic Inflammation
(c) Sinusitis
(d) Pneumothorax
(e) Paramedian Incision
5. **Answer the following question.** [10]
Describe in detail Thoracoplasty procedure with pre and post operative rehabilitation.
6. **Attempt any ONE question out of the following two questions.** [15]
(a) Explain in detail indication, contraindication and criteria of Lung transplantation with physiotherapy management.
- OR**
- (b) Discuss in detail Burr Hole Surgery of Brain with complete rehabilitation management.
-

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

BF/2023/10

**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.****[5x3=15]**

- (a) Dynamic Cock-up splint
- (b) Elbow Crutch
- (c) Tetraplegia
- (d) 3-point gait
- (e) Thoracolumbar orthosis

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

Explain the role of NGO's in rehabilitation of the persons with disabilities.

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 the major ethical principles and rules of professional conduct in healthcare.

OR

- (b) Explain in detail the development of the profession of physical therapy and its scope of practice.

SECTION - B**[40 Marks]****4. Write short Notes up to 5 lines in length.****[5x3=15]**

- (a) COPRA
- (b) Liability and its types
- (c) Wernicke's aphasia
- (d) Apraxia
- (e) SACH foot

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

Explain in detail locomotor disability, its impact and various methods of its rehabilitation.

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

- (a) Explain the difference between orthosis and prosthesis. Explain in detail the process of wheelchair assessment, components and parts of wheelchair.

OR

- (b) Explain principles of administration including personnel and fiscal management for establishment of a physical therapy set up.
