

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

BF/2021/10

Anatomy

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A**[40 Marks]**

1. **Write short Notes up to 5 lines in length.** [5x3=15]
 (a) Simple columnar epithelium (b) Compact bone
 (c) Typical spinal nerve (d) Deltoid Muscle
 (e) Femoral artery
2. **Answer the following question upto 3 pages in length.** [10]
 Describe the origin, insertion, nerve supply and actions of Extra- Ocular Muscles.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Describe Pancreas including its gross anatomy, blood supply and relations.
 OR
 (b) Describe Hip Joint for its type, articulation, movements and applied anatomy.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 (a) Pleural recesses
 (b) Surface marking of Liver
 (c) Ureter
 (d) Functions of Pituitary gland
 (e) Difference between thick and thin skin
5. **Answer the following question upto 3 pages in length.** [10]
 Describe the formation, branches and distribution of Brachial Plexus. Add a note on its applied anatomy.
6. **Attempt any ONE question out of the following two questions and answer should be upto 5 pages in length.** [15]
 (a) Discuss the venous drainage of Lower Limb and its applied aspect.
 OR
 (b) Discuss the parts of Male Reproductive system in brief.

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

BF/2021/10

Physiology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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SECTION - A**[40 Marks]**

1. **Write short Notes on :** [5x3=15]
 (a) Cell Membrane (b) Sarcoma
 (c) Anaemia (d) Peptic Ulcer
 (e) Cushing syndrome
2. **Answer the following question upto 3 pages in length.** [10]
 Describe the functions of Thalamus in details.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Enumerate Fat soluble vitamins. Explain synthesis, sources, functions of Vit D. Add a note on Rickets.
OR
 (b) Explain how Kidneys help in regulating fluid and electrolyte balance in the body.

SECTION – B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 (a) Synapse
 (b) Horner's Syndrome
 (c) Function of Plasma Protein
 (d) Action potential in Cardiac Muscle
 (e) Properties and functions of Neuron
5. **Answer the following question upto 3 pages in length.** [10]
 Explain how Carbon dioxide is transported from tissues to lungs.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Explain effect of exercise, training on endurance, fatigue and recovery.
OR
 (b) Define Muscle spindle and explain stretch reflex.

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

BF/2021/10

Biochemistry

[New Scheme w.e.f. 2009]

Time: 3 Hours**Max Marks: 80**

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SECTION - A**[40 Marks]**

1. **Answer the following(up to 5 lines in length):** [5x3=15]
 (a) Explain the functions of Nucleus of cell and also draw a labelled diagram.
 (b) Define Essential amino acids & name them. What is their importance?
 (c) Write short note on Osmotic pressure.
 (d) Write short note on Watson and Crick model of DNA.
 (e) Define carbohydrates and list their functions in the body.
2. **Answer the following question upto 3 pages in length.** [1+5+4= 10]
 Define Lipoproteins and classify lipoproteins. Explain their biological significance.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Enumerate Water soluble vitamins. Discuss the functions and deficiency manifestations of Vitamin C. [6+6+3= 15]
OR
 (b) Briefly discuss the salient features of Glycolysis (Embden- Mayerhoff pathway) and energy yield during aerobic and anaerobic glycolysis. How is it regulated?. [4+6+5= 15]

SECTION - B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 (a) Phenylketonuria
 (b) Factors affecting the enzyme activities
 (c) Insulin hormone
 (d) Genetic code
 (e) Isotopes and diagnostic use of isotopes
5. **Answer the following question upto 3 pages in length.** [10]
 Describe Electrolytes. Add a note on clinical abnormalities associated with electrolyte imbalance.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 (a) Write about the Urea cycle and fate of ammonia. [8+7= 15]
OR
 (b) Describe the reactions of de novo synthesis of fatty acid and how is it regulated? [10+5= 15]

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Electrotherapy-I

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
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SECTION - A

[40 Marks]

1. **All questions are compulsory. Write short Notes up to 5 lines in length.** [5x3=15]
(a) Ohm's law
(b) Chronaxae
(c) Potential difference
(d) Principles of Sound
(e) Wallerian degeneration
2. **Answer the following question upto 3 pages in length.** [10]
Explain about physiological and therapeutic effect of IRR.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss about Superficial heating modalities.

OR

- (b) Discuss about S.D. Curve and its applications.

SECTION - B

[40 Marks]

4. **All questions are compulsory. Write short Notes up to 5 lines in length.** [5x3=15]
(a) Properties of Matter
(b) Joule's Law
(c) Rheobase
(d) Ionization
(e) Pain gate theory
5. **Answer the following question upto 3 pages in length.** [10]
Discuss about the dosimetry of UVR.
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 chemical and magnetic effects of current electricity.

OR

- (b) Write in detail about indications, contraindications and therapeutic effects of TENS and Iontophoresis.

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

BF/2021/10

Exercise Therapy – I

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **All questions are compulsory. Answer up to 5 lines in length.** [5x3=15]
(a) Three orders of Lever with example on human body
(b) Define eccentric contraction with example on human body
(c) Deep friction massage
(d) Muscle Tone
(e) Voluntary and Involuntary movements
2. **Answer the following question upto 3 pages in length.** [10]
Enumerate various equipment used in Therapeutic Gymnasium and their uses.
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, precaution and uses of Suspension therapy.

OR

- (b) Describe the principles and grades of Manual muscle testing. Write the testing position and procedure for quadriceps muscle.

SECTION – B

[40 Marks]

4. **All questions are compulsory. Answer up to 5 lines in length.** [5x3=15]
(a) Types of goniometer
(b) Muscle fatigue
(c) Types of muscle work
(d) Anterior pelvic tilt
(e) Equipments in therapeutic gymnasium
5. **Answer the following question upto 3 pages in length.** [10]
Write briefly about Progressive resistance exercise.
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 relaxation, techniques of relaxation and factors contributing to muscle fatigue and tension.
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B.P.T. [1st Prof.]

BF/2021/10

English

[New Scheme w.e.f. 2009]

Time: 1 ½ Hours**Max Marks: 40**

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

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

- i. Among the two of us, we can complete this task.
- ii. Switch of the light.
- iii. Write in pencil.
- iv. He has been away for yesterday.
- v. Please put this under the corner of the room.

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

- i. We had _____ a long distance. (walk)
- ii. Why are you always _____ me ? (scold)
- iii. The team has _____ the practice. (complete)
- iv. The workers have _____ the road. (repair)
- v. This actor always _____ hard on his role. (work)

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

The Internet (or just the Net) is a huge computer network. It stretches right around the world, connecting millions of computers to each other. Any two computers connected to the Internet, whether they are, can exchange information. The Internet is a fast and efficient way of sending information around the world. This is why it is sometimes called the information superhighway. With a computer connected to the Internet, you can send electronic messages to other users (this is called e-mail), hold electronic conversations, transfer computer files, or find information on thousands of different subjects. In the modern times the Internet is also used for buying and selling goods. This is known as e-commerce or e-com in short. More and more banks and financial institutions are encouraging their customers to do all their transactions through the Internet. It is also possible to book tickets for travel to different parts of the country through the Internet. The number of people connected to the Internet and the volume of information going through it is increasing at an amazing rate. It is bringing about a change in how and where people live and work; people are beginning to work from home, order shopping, visit the library, choose and watch videos, all through the Net. The Internet consists of many small computer networks linked together. The smaller networks belong to businesses, universities and colleges, government departments and many other organizations, including companies called Internet service providers. Most of the links in the Internet are telephone lines, and information goes along them between the computers in small chunks called packets. Along with each packet goes the address of the computer to which it is travelling. The

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

BF/2021/10

Pathology & Microbiology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

QP Code: BTN201 [Pathology]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Psoriasis
 - (b) Wet gangrene
 - (c) Cardiogenic shock
 - (d) Tuberculoid leprosy
 - (e) Osteomyelitis
2. **Answer the following question upto 3 pages in length.** [10]

Define Chronic Venous Congestion, give its etiopathogenesis and morphological changes in CVC Lung and Liver.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Describe etiopathogenesis, morphological and pathological changes of Myocardial Infarction.

OR

 - (b) Describe pathogenesis of Bronchiectasis, give its morphology and enumerate complications.

SECTION - B

[40 Marks]

QP Code: BTN202 [Microbiology]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Contributions of Louis Pasteur in Microbiology
 - (b) Flagella
 - (c) Vapour Phase disinfectants
 - (d) Anaphylaxis
 - (e) Candidiasis
5. **Answer the following question up to 3 pages in length.** [10]

Name various organisms causing Meningitis. Discuss the laboratory diagnosis of acute pyogenic meningitis.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Classify Hepatitis Viruses. Describe the antigenic structure, mode of transmission and laboratory diagnosis of infection caused by Hepatitis B Virus (HBV)

OR

 - (b) Classify Human Corona Viruses. Describe the transmission, laboratory diagnosis and prophylaxis of SARS-CoV-2.

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Pharmacology

[New Scheme w.e.f. 2009]

Time: 1½ Hours

Max Marks: 40

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

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

Attempt all the questions with suitable examples, if any.

- a. Intramuscular route of drug administration
- b. Classification of adverse drug reactions
- c. Sources of drugs
- d. Vitamin D
- e. Diazepam

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

Enumerate Anti- tubercular drugs. Discuss mechanism of action, therapeutic uses and side- effects of Rifampicin.

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

- (a) Classify Oral hypoglycemic agents used in diabetes mellitus. Discuss mechanism of action, therapeutic uses and side-effects of Metformin.

OR

- (b) Classify Non-steroidal anti-inflammatory drugs (NSAIDS). Discuss mechanism of action, therapeutic uses and side-effects of Aspirin.

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. Piezoelectric effect
b. Latent heat
c. Pressure sore
d. Wavelength
e. Fraunhofer zone
2. **Answer the following question upto 3 pages in length.** [10]
Explain about indications & contraindications for the application of Microwave Diathermy.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Write in detail about physiological & therapeutic effects of Cryotherapy.
OR
b. Write in detail about the production of medium frequency currents, indication, contraindications & precautions for using IFT.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
a. Thermionic emission
b. Capacitance
c. Self induction
d. Eddy currents
e. Accommodation
5. **Answer the following question upto 3 pages in length.** [10]
Explain about the water bag method of application of Ultrasonic Therapy.
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 bio-physiological & therapeutic effects of LASER in detail
OR
b. Discuss about principles of Biofeedback, indications & contraindications for the use of Biofeedback.

B.P.T. [2nd Prof]

BF/2021/10

Exercise Therapy – II

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
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 upto 5 lines in length.** [5x3=15]
a. Gravity
b. Inco-ordination
c. Tone
d. Power
e. Diaphragm
2. **Answer the following question upto 3 pages in length.** [10]
Neurophysiological basis for Co-ordination
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Discuss and explain 'Kyphosis' & its therapeutic interventions.
OR
b. Group Therapy- Advantages & Disadvantages.

SECTION – B

[40 Marks]

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
a. Four Contraindications for Mobilization
b. Tests for Co-ordination
c. Two principles of PNF
d. Four uses of Hydrotherapy
e. Health
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail about 'Stance Phase of Gait'.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Define Yoga and explain any four asanas.
OR
b. Explain Strengthening exercises of Biceps brachii muscle from Grade 1 to 5.

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

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Biomechanics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
(a) Force system
(b) Define levers and its types
(c) Function of glenoid labrum
(d) Degrees of freedom
(e) Closed pack position
2. **Answer the following question upto 3 pages in length.** [10]
Discuss the locking- unlocking mechanism of Knee joint.
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 Gleno- humeral rhythm.

OR

- (b) Write in detail different types of Vertebral joints mentioning their articulating structures and supporting mechanisms.

SECTION – B

[40 Marks]

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
(a) Postural sway
(b) Patella alta and patella baja
(c) Evertors and invertors
(d) Bipinnate and multipinnate muscle
(e) Isometric and isokinetic contraction
5. **Answer the following question upto 3 pages in length.** [10]
Write in detail about arches of Foot and discuss their importance.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss the biomechanics of respiration in detail.

OR

- (b) Discuss different pathological gaits.
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B.P.T. [2nd Prof.]

BF/2021/10

Sociology & Psychology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

QP Code: BTN207

[Sociology]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Briefly describe the key concept in sociology (culture, norms)
(b) Explain caste and write its two characteristics
(c) Sociology is a science of society. Discuss
(d) What is the nature and scope of sociology in health?
(e) Define socialization and write two agencies of socialization
2. **Answer the following question upto 3 pages in length.** [10]
What is the meaning of Social control? Explain the necessity of social control in the society.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss various needs & help required in community affected, following The COVID-19 pandemic.

OR

- (b) Write an essay on the impact of covid-19 on the doctors and the health workers.

SECTION – B

[40 Marks]

QP Code: BTN208

[Psychology]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Trial and Error learning
(b) Gestalt quality
(c) Counselling v/s Guidance
(d) Play therapy
(e) Compliance
2. **Answer the following question upto 3 pages in length.** [10]
Explain the psychoanalytic theory put forth by Sigmund Freud with focus on Personality Dynamics?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) What are the causes of Alcoholism? Give some intervention strategies for treating alcoholics?

OR

- (b) Describe various test (Verbal & Non-verbal) for measuring intelligence?
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B.P.T. [3rd Prof.]

BF/2021/10

Orthopaedics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:**
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SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Haglund's deformity
 - (b) VIC
 - (c) Dequervain's tenosynovitis
 - (d) Syme's amputation
 - (e) Torticollis
2. **Answer the following question upto 3 pages in length.** [10]

Discuss in detail clinical presentation, management and complications of Tubercular knee. Also write about Triple deformity of knee.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Discuss in detail the clinical presentation, management and complications of injury around Ankle with special emphasis on Anterior talofibular ligament injury.

OR

- (b) Discuss in detail clinical presentation and management of Elbow dislocation in adults.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Colle's fracture
 - (b) Hammer Toe
 - (c) Rupture of patellar tendon
 - (d) Complications of compound fracture of tibia
 - (e) Complications of fracture shaft humerus
5. **Answer the following question upto 3 pages in length.** [10]

Discuss in detail the clinical presentation, imaging and management of Traumatic quadriparesis.
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 the clinical presentation, imaging and management of Ankylosing spondylitis.

OR

- (b) Discuss in detail the clinical presentation, differential diagnosis and management of Ewing's sarcoma.

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

BF/2021/10

General Medicine

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Herpes Zoster
(b) Clinical features of Vitamin B6 deficiency
(c) Drug used in Parkinson's disease
(d) Fungal infection
(e) Hypotension
2. **Answer the following question upto 3 pages in length.** [10]
Describe the etiology, clinical features and management of Duodenal ulcer.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the clinical features, diagnosis and treatment of Pneumonia.
- OR**
- (b) Write the causes, clinical features and management of Nephritis.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Mumps
(b) Clinical features of Dysentery
(c) Hepatitis C
(d) Enumerate the causes of pancreatitis
(e) Diagnosis of pneumothorax
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the etiology, clinical features and treatment of Unstable angina.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the causes, clinical features, diagnosis and treatment of Lung abscess.
- OR**
- (b) Describe the clinical features, diagnosis and treatment of Ascites.
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B.P.T. [3rd Prof.]

BF/2021/10

P.T. in Orthopaedic Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
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) Classification of degrees of ligament sprain
(b) Greenstick fracture
(c) Salter and Harris classification of epiphyseal injuries
(d) Pott's fracture
(e) Onfield management of acute injury
2. **Answer the following question upto 3 pages in length.** [10]
Discuss aetiology, clinical features, investigation and physiotherapy management of Osteoarthritis.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss the aetiology, clinical features and treatment of tuberculosis of Spine.

OR

- (b) Describe the pathology, clinical features and physiotherapy management of PIVD.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Arthrodesis
(b) Stages of fracture healing
(c) Kyphosis
(d) Tests to diagnose ACL injury
(e) Impingement syndrome
5. **Answer the following question upto 3 pages in length.** [10]
Discuss various complications of Fracture.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe the aetiology, clinical features, special tests and physiotherapy management of Spondylosis.

OR

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

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P.T. in Medical Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Chronic inflammation
(b) Dementia
(c) Risk factors for hypertension
(d) Pulmonary function tests
(e) Claw hand in Hansen's disease
2. **Answer the following question upto 3 pages in length.** [10]
Discuss etiology, pathology, clinical features and physiotherapy management of COPD.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) What is Rheumatoid Arthritis? Discuss the clinical presentation and management of Rheumatoid Arthritis.

OR

- (b) Write on various types of Cerebral palsy. What are the signs, symptoms and physiotherapy management of spastic cerebral palsy.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Coronary angiography
(b) Duchenne's muscle dystrophy
(c) Marasmus
(d) Exercise prescription in obesity
(e) Prophylactic and therapeutic effects of exercise in diabetic
5. **Answer the following question upto 3 pages in length.** [10]
What is Pneumonia? Write on various stages of pneumonia and discuss physiotherapy management for the same.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Define Osteoporosis and explain fall prevention program and its significance in elderly.

OR

- (b) Explain Stroke, its aetiology and write in detail about the physiotherapy management.
-

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

BF/2021/10

Research Methodology and Biostatistics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note: 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
4.) *The Student must write Q.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) Sampling errors
(b) Assumptions of analysis of variance
(c) Properties of correlation coefficient
(d) Importance of level of significance
(e) Primary & secondary data
2. **Answer the following question upto 3 pages in length.** [10]
Difference between Parametric & 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 Reliability and its types in detail.

OR

- (b) Discuss correlation and its types? Differentiate between correlation and regression.

SECTION – B

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Standard deviation
(b) Different sources of collecting data
(c) Ethical issues in research
(d) t- test
(e) Importance of research in physiotherapy
2. **Answer the following question upto 3 pages in length.** [10]
Explain various tests for significance of means.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe Hypothesis, its types along with example.
- OR
- (b) Describe structure of Research proposal.
-

QP Code: BTN401

B.P.T. [4th Prof]

BF/2021/10

General Surgery

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:**
- 1.) *Attempt all questions.*
 - 2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
 - 3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
 - 4.) **The Student must write 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) Cold abscess
 - (b) Otitis media.
 - (c) Renal Colic
 - (d) Sebaceous cyst
 - (e) Episiotomy
 2. **Answer the following question upto 3 pages in length:** [10]

Discuss different types of incision of abdomen & different suture techniques.
 3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Discuss different type of anaesthesia with their procedure.
- OR**
- (b) Describe clinical features of Shock & management of Hypovolemic shock.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 - (a) Paraphimosis
 - (b) Paronychia
 - (c) Tonsillitis
 - (d) Pelvic inflammatory disease
 - (e) Blood group matching
 5. **Answer the following question upto 3 pages in length.** [10]

How will you manage critically ill patient of Road traffic accident.
 6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
 - (a) Discuss different diseases of Eye with their management.
- OR**
- (b) Discuss BTA (Blunt Trauma Abdomen) & management according to the organ injured.
-

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

BF/2021/10

Neurology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED.**
4.) **The Student must write 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) Bell's palsy
(b) Obsessive compulsive neurosis
(c) Carpal tunnel syndrome (CTS)
(d) Dysdiadochokinesia
(e) ATNR
2. **Answer the following question upto 3 pages in length.** [10]
Describe in detail about patho- physiology and clinical features of Poliomyelitis.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Assessment and evaluation procedure for the Neurological patient.

OR

- (b) Classification, assessment and management of Cerebral palsied children.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Non- equilibrium tests
(b) Functions of temporal lobe
(c) Intentional tremors
(d) Wrist drop
(e) Dementia
5. **Answer the following question upto 3 pages in length.** [10]
First aid and management of Spinal cord injury.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Classification and management of Motor neuron diseases.

OR

- (b) Write definition, classification and management of Epilepsy.
-

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

BF/2021/10

P.T. in Neurological Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Sensory assessment
(b) Prevention of pressure sores
(c) Charcot's triad
(d) What are various investigating procedures used in diagnosis of Stroke
(e) Frenkel's exercises
2. **Answer the following question upto 3 pages in length.** [10]
What are the respiratory manifestations in Spinal cord injury. Also discuss the physiotherapy management of various respiratory manifestations.
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 regarding physiotherapy assessment and management of patient with complete L1 spinal cord injury.
OR
(b) Describe Gullian Barre Syndrome. Write its clinical features, diagnosis and treatment in detail.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Sensory re-education
(b) Types of rigidity
(c) Akinesia and bradykinesia
(d) Blood supply of brain
(e) Trigeminal neuralgia
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the causes and treatment of Transverse myelitis.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) What are various physiotherapeutic approaches used in treatment of neurological patients?
OR
(b) Discuss physiotherapy assessment and management of patient with Sciatica.

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

BF/2021/10

P.T. in Surgical Conditions

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Vasomotor Rhinitis
(b) Indications of lung transplantation
(c) Cardiac tamponade
(d) Hutchinson pupil
(e) Placenta previa
2. **Answer the following question upto 3 pages in length.** [10]
Discuss the PT management in case of Pressure sores.
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 CABG and it's types and discuss the post operative cardiac rehabilitation in case of CABG.
- OR
- (b) Discuss the role of physiotherapy in Abdominal surgeries.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Neuropraxia
(b) Laminectomy
(c) Signs of cerebellar lesion
(d) BPPV
(e) CTEV
5. **Answer the following question upto 3 pages in length.** [10]
Classify Brachial plexuses injury and explain in detail about injury to median nerve and it's PT management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Classify Neurogenic bladder and explain in detail about UMN type of bladder and it's PT management.
- OR
- (b) Explain various types of Grafts and flaps and discuss the role of physiotherapy in case of skin grafting.
-

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

BF/2021/10

Physiotherapy Ethics Administration & Rehabilitation

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Scope of practice and relationships within the physical therapy profession
(b) HKAFO
(c) Responsibility and confidentiality in the profession of physical therapy
(d) Social impact of disability
(e) Teaching of bed activities and self care activities
2. **Answer the following question upto 3 pages in length.** [10]
Write on History of physiotherapy.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss the statutory provisions, schemes of assistance and the role of NGO's in persons with disability.

OR

- (b) Discuss the rules of professional ethics and conduct to be followed in the field of physiotherapy.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Define accreditation & its role
(b) Customer Protection Act
(c) Teaching of Locomotor activities in a patient with paraplegia
(d) Role of proper documentation
(e) Philosophy and philosophical statement in physiotherapy
5. **Answer the following question upto 3 pages in length.** [10]
Explain community based rehabilitation and out reach programmes to rehabilitate persons with disabilities living in rural areas.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe identification, assessment, classification and principles of rehabilitation of the mentally subnormal, including vocational training and home education programme.

OR

- (b) Explain the basic principles of administration and finance including personnel management and budget preparation for a physiotherapy set up.