

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

BF/2020/11

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) Medial Pectoral Nerve | (b) Biceps Brachii |
| (c) Basilic Vein | (d) Trochlear Nerve |
| (e) Sartorius Muscle | |

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

[10]

Describe Knee Joint for its type, articulation, movements, muscle producing movements and applied anatomy.

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

[15]

- (a) Describe blood supply of Heart along with well labelled diagram.

OR

- (b) Classify Muscles. Draw a diagram of each type.

SECTION - B

[40 Marks]

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

[5x3=15]

- (a) Dermatome
(b) Sciatic Nerve
(c) Prostate
(d) Abdominal Aorta
(e) Liver

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

[10]

Describe Blood supply of Lower Limb with its applied anatomy. Make a suitable diagram explaining your answer.

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

[15]

- (a) Describe Visual pathway with suitable diagram and applied anatomy.

OR

- (b) Describe Fourth Ventricle of the Brain.

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Physiology

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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SECTION - A**[40 Marks]**

1. **Write short Notes on :** [5x3=15]
 (a) Facilitated diffusion (b) Myasthenia gravis
 (c) Lymphocytes (d) Cardiac cycle
 (e) Cyanosis
2. **Answer the following question upto 3 pages in length.** [10]
 Define Pain and explain pathway for pain sensation.
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 Nervous regulation of respiration and add a note on Cheyne stokes breathing
OR
 (b) Enumerate Hormones released from Anterior- Pituitary and describe mechanism of action and functions of Growth Hormone.

SECTION - B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
 (a) Mitochondria
 (b) Rigor mortis
 (c) Haemoglobin
 (d) Haemophilia
 (e) Hyperthyroidism
5. **Answer the following question upto 3 pages in length.** [10]
 Define Blood Pressure. Explain how short- term regulation of Blood Pressure is done by the Body
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 effects of exercise and work on Body.
OR
 (b) Describe composition, regulation and phases of Salivary secretion.

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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]
- Explain the functions of Mitochondria and also draw a labelled diagram.
 - Define Essential amino acids and name them. What is their importance.
 - Write short note on Polysaccharides.
 - Write short note on Functions of mRNA.
 - Define Lipids and list their functions in the Body.
2. **Answer the following question upto 3 pages in length.** [1+5+4= 10]
 Define Proteins and classify proteins with suitable examples. Add a note on structure of proteins.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
- Enumerate Fat soluble vitamins. Discuss the functions and manifestations in deficiency of Vitamin A. [6+6+3= 15]

OR

- Briefly discuss the salient features of Glycolysis (Embden- Mayerhoff pathway) and energy yield during aerobic and anaerobic glycolysis. How it is regulated. [4+6+5= 15]

SECTION - B**[40 Marks]**

4. **Write short Notes up to 5 lines in length.** [5x3=15]
- Alkaptonuria
 - Ketone bodies
 - Hypothyroidism
 - Balanced diet
 - Genetic code
5. **Answer the following question upto 3 pages in length.** [10]
 Define pH and methods of measurements of pH. Add a note on clinical abnormalities associated with acid- base imbalance.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
- Describe denovo synthesis of Cholesterol and its regulation. [8+7= 15]

OR

- Write about the Urea cycle and its disorder. [10+5= 15]
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Exercise Therapy – I

[New Scheme w.e.f. 2009]

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

OR

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

SECTION – B

[40 Marks]

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

OR

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

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

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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.**
 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) Electromotive force
 (b) Fuse
 (c) Photosensitization
 (d) Transformer
 (e) Synapse

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

[10]

Discuss the importance of Pulse duration and pulse width in different forms of current with example.

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

[15]

- (a) Write in detail about the principles and production of UVR.

OR

- (b) Discuss the techniques of treatment with faradic type of currents.

SECTION - B**[40 Marks]**

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

[5x3=15]

- (a) Flux
 (b) Short circuit
 (c) Motor point
 (d) E4 dose in UVR
 (e) Capacitance

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

[10]

Define and discuss the principles of Accomodation during electrical muscle stimulation and its effects.

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 therapeutic effects of superficial heating modalities and discuss the advantages and disadvantages of any 2 such heating modalities.

OR

- (b) Discuss the importance of SD Curve in re- innervation. Plot and discuss the SD curve in case of partial re- innervation.

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

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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. Write in pencil.
- ii. Please send me much money.
- iii. The building is in fire.
- iv. The parents thanked to the teacher.
- v. The Sun is rising in the East every day.

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

- i. Have you _____ the job ? (finish)
- ii. We will be _____ to London soon. (go)
- iii. The students were _____ in the field. (march)
- iv. No, I am not _____ this role here. (play)
- v. There is nothing to be _____ here. (do)

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

The use of technology for foreign language instruction has spread rapidly in the developed countries during the last two decades. Studies of the effect of technology- enhanced instruction on achievement and studies of student attitudes regarding learning with technology have also increasingly been reported. Technology has the potential to address a variety of students' learning styles and academic needs simultaneously and seamlessly. Research has shown that effective use of technology increases learning opportunities and facilitates new learning.

3. Your friend has been offered a good job. Write a letter offering some advice and congratulations. [10]

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

- a. India of the future
 - b. Fashion in your life
 - c. An unforgettable day
 - d. Career is important in life
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B.P.T. [2nd Prof.]

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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) Fat necrosis
(b) Morphology of thrombi
(c) Causes of anaemia
(d) Osteomyelitis
(e) Wet gangrene
2. **Answer the following question upto 3 pages in length.** [10]
Define Acute inflammation. Enlist the signs of inflammation. Discuss briefly vascular changes of acute inflammation.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Define Asthma. Discuss types of asthma, clinical features and enumerate the stimuli that cause asthma.

OR

- (b) Define Coronary artery disease. Write down the risk factors of Myocardial infarction. Enlist various 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
(b) Bacterial capsule
(c) Classification of disinfectants
(d) Type I hypersensitivity
(e) Candida albicans
5. **Answer the following question up to 3 pages in length.** [10]
Enumerate the organisms causing Urinary tract infection. Write laboratory diagnosis of UTI.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss the laboratory diagnosis and prophylaxis of Polio virus.

OR

- (b) What are different types of hepatitis infections. Discuss hepatitis caused by hepatitis B virus.
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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. Oral route of drug administration
- b. Erythromycin
- c. Diazepam
- d. Enalapril
- e. Salbutamol

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 Anti- diabetic drugs. Discuss mechanism of action, therapeutic uses and side-effects of Metformin.

OR

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

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Electro Therapy – II

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

- Note:** 1.) *Attempt all questions.*
2.) **ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.**
3.) **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED**
4.) **The Student must write 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. Neuropraxia
b. Specific heat
c. Convection
d. Electromotive force
e. Fibrillation potential
2. **Answer the following question upto 3 pages in length.** [10]
Discuss indications & contraindications for the application of Shortwave diathermy.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Discuss various methods for the application of Ultrasonic therapy.
OR
b. Write in detail about therapeutic & physiological effects of Microwave diathermy.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
a. Electromagnetic Induction
b. Refraction
c. Magnetron
d. Standing Waves
e. Microstreaming
5. **Answer the following question upto 3 pages in length.** [10]
Discuss properties of LASER.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. Explain Lewis hunting reaction. Discuss various methods of application of Cryotherapy
OR
b. Write about limitations of Biofeedback. Also discuss about operational skills and patient preparation for the use of Biofeedback.

B.P.T. [2nd Prof]

BF/2020/11

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. Physiological effects of traction
b. Pranayama (Yoga)
c. Patient preparation for hydrotherapy
d. Indications of Tetrapods
e. Muscular imbalance in exaggerated Lumbar lordosis
2. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail Sensory inputs for maintaining Normal posture ?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
a. What is Rhythmic stabilization and Repeated contraction with Normal timing ? Explain their indications and contra-indications ?
OR
b. Explain therapeutic effects of Joint mobilization ? Discuss briefly about indications and contra-indications of joint manipulations ?

SECTION – B

[40 Marks]

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
a. Rhythmic Initiation
b. Mobilization of Ankle joint
c. Forward reach test
d. Breathing exercises
e. Yoga for relaxation
5. **Answer the following question upto 3 pages in length.** [10]
What is Traction ? Explain physiological and therapeutic effects of traction.
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 physiotherapy interventions to improve Dynamic Balance ?
OR
b. Explain therapeutic exercises to correct Forward head posture and Rounded shoulders ? Explain Lower crossed syndrome ?

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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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) Spurt and shunt muscle
(b) Group action of muscle
(c) Ergonomics
(d) Mechanical advantage
(e) Fibrous tissue
2. **Answer the following question upto 3 pages in length.** [10]
What is Postural mechanism and write principles of posture.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Dynamic stabilization of the glenohumeral joint using principles of biomechanics

OR

- (b) Discuss medial, lateral and anterior- posterior stability of the knee.

SECTION - B

[40 Marks]

4. **All questions are compulsory. Answer upto 5 lines in length.** [5x3=15]
(a) Line of gravity
(b) Classification of joint
(c) Gait cycle
(d) Angle of pull
(e) Osteokinematics
5. **Answer the following question upto 3 pages in length.** [10]
What is the mechanical advantage of a Lever greater than one?
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss static and dynamic posture in detail with Postural re- education.

OR

- (b) Comparison of traditional and RLA terminology of gait?
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B.P.T. [2nd Prof.]

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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]

- Describe the role of medical social worker in maintaining community health.
- What is difference between primary and secondary group
- What social factors affect the health of women in society? Discuss
- Discuss role of family in transmission of culture to children
- How caste and class determine individual access to health services

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

[10]

Discuss comparative perspective of rural and urban communities in determining beliefs, practices and home remedies in treatment.

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

[15]

- How does culture influence the choice of treatment of an ailment. Discuss with examples.

OR

- Discuss impact of COVID- 19 on health care workers. Explain your answer with suitable examples.

SECTION - B

[40 Marks]

QP Code: BTN208

[Psychology]

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

[5x3=15]

- Structuralism
- Mental Age
- Difference between Fear and Anxiety
- Passive Smoking
- Creativity

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

[10]

How will you apply different principles of learning to modify the behaviour of patients?

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

[15]

- What is the difference between Guidance and Counseling? Explain the principles of Counseling along with qualities of Counselors. [3+6+6= 15]

OR

- Discuss different factors which play their role in Personality development.

[15]

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

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Orthopaedics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

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

[5x3=15]

- (a) Golfer's elbow
- (b) Trigger finger
- (c) Morton's metatarsalgia
- (d) Traumatic amputation
- (e) Jaipur foot

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

[10]

Discuss in detail the clinical presentation, management and complications of Tubercular hip.

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

[15]

- (a) Discuss in detail the clinical presentation, management and complications of Anterior cruciate ligament injury.

OR

- (b) Discuss in detail the clinical presentation and management of Rotator cuff tear in adults.

SECTION - B

[40 Marks]

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

[5x3=15]

- (a) Supracondylar fracture in children
- (b) Mallet finger
- (c) Rupture of tendo-achilles
- (d) Complications of femoral shaft fracture
- (e) Complications of clavicle fracture

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

[10]

Discuss in detail the clinical presentation, imaging and management of Traumatic paraplegia.

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 Rheumatoid arthritis.

OR

- (b) Discuss in detail the clinical presentation, differential diagnosis and management of Osteosarcoma.

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

BF/2020/11

General Medicine

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

SECTION - A

[40 Marks]

1. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Clinical features of hyper thyroidism
(b) Myxoedema coma
(c) Management of tetany
(d) Causes of cushing's syndrome
(e) Rheumatic fever
2. **Answer the following question upto 3 pages in length.** [10]
Describe aetiology, clinical features, complications and management of Danguue.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe classification, causes & pathogenesis of Diabetes Mellitus and management of Diabetic Keto acidosis .

OR

- (b) Discuss aetiology, clinical features, complications & management of Typhoid fever including laboratory investigations.

SECTION – B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Management of Status asthamicus
(b) Bacillary dysentery
(c) Management of hemetemeses
(d) Etiology of UTI
(e) Causes of persistent vomiting
5. **Answer the following question upto 3 pages in length.** [10]
Aetiology, clinical features and management of Acute kidney injury.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe causes, clinical features, investigations, complications and treatment of Gastro- oesophageal reflux disease (GERD).

OR

- (b) Write definition, mechanism, causes, clinical features and management of Ascitis.

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

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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) Cross union
(b) Ideal stump features
(c) Wrist drop
(d) Empty can test
(e) Pott's fracture
2. **Answer the following question upto 3 pages in length.** [10]
Describe the mechanism of injury, complications, types and management of Ankle fractures.
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 clinical features, special tests and management of patient with Lumbar PIVD.

OR

- (b) Discuss in detail about Ankylosing spondylitis and its physiotherapy management.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Green stick fracture
(b) Genu recurvatum
(c) Torticollis
(d) Cervical rib
(e) Hallux valgus
5. **Answer the following question upto 3 pages in length.** [10]
Describe in detail etiopathogenesis, clinical features and management of P.A. Shoulder.
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 CTEV and it's management .

OR

- (b) Discuss in detail physiotherapy treatment in case of Below knee amputee.
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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) Congenital neurological disorders
(b) Risk factors of hypertension
(c) Vocal cord palsy
(d) Clinical features of pellagra and scurvy
(e) Causes and management of acne
2. **Answer the following question upto 3 pages in length.** [10]
Discuss etiology, diagnostic criteria and treatment of Rheumatoid arthritis.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe clinical features, diagnosis and treatment of Arteriosclerosis.
- OR**
- (b) Describe clinical features, diagnosis and treatment of Lepromatous leprosy.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Enumerate chronic complications of type 2 diabetes
(b) Enumerate causes of falls in elderly
(c) Indications of electrocardiography
(d) Clinical features and diagnosis of fibromyalgia
(e) Abnormal sounds on auscultation
5. **Answer the following question upto 3 pages in length.** [10]
Discuss etiology, clinical features and treatment of Dementia.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe clinical features, diagnosis and treatment of Community acquired pneumonia.
- OR**
- (b) Write the causes, clinical features and management of Lung abscess.
-

Research Methodology and Biostatistics

[New Scheme w.e.f. 2009]

Time: 3 Hours

Max Marks: 80

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

NOTE: SIMPLE CALCULATOR IS ALLOWED.

SECTION - A

[40 Marks]

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

[5x3=15]

- (a) Ethical issues in research
- (b) Reliability
- (c) Mode
- (d) Alternate hypothesis
- (e) Standard deviation

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

[10]

What do you mean by Sampling, describe various methods.

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

[15]

- (a) Describe importance of research in clinical practice, scientific approach, characteristics, purposes and limitations.

OR

- (b) Describe applications of common statistical tools and programs.

SECTION - B

[40 Marks]

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

[5x3=15]

- (a) Sampling error
- (b) Level of significance
- (c) Assumptions of analysis of variance
- (d) Properties of correlation coefficient
- (e) Paired t test

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

[10]

What is Chi- square test ? Describe its various applications.

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

[15]

- (a) Explain measurement, principles of measurement, reliability and validity.

OR

- (b) Explain various tests for test of significance of means.

B.P.T. [4th Prof]

BF/2020/10

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) Sebaceous cyst
(b) Phimosis
(c) Gas Gangrene
(d) Ranula
(e) X- Ray lumbosacral spine
2. **Answer the following question upto 3 pages in length:** [10]
Discuss Septicemia & management of Septic Shock.
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 Skin cancers and management of Basal cell carcinoma.
- OR**
- (b) Discuss indications and complications of Blood transfusion.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Paronychia
(b) Recurrent laryngeal nerve
(c) Corneal opacity
(d) Menorrhagia
(e) Pregnancy test
5. **Answer the following question upto 3 pages in length.** [10]
Discuss the management of Third stage of labour.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss management of Thyroid swelling.
- OR**
- (b) Discuss symptoms and management of Post menopausal syndrome.
-

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

BF/2020/10

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) Epilepsy
(b) Parietal lobe
(c) Types of rigidity
(d) Isotonic and isometric muscle contraction
(e) Encephalitis
2. **Answer the following question upto 3 pages in length.** [10]
Define Spine Bifida. Explain in detail its clinical features and management?
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Classify diseases of Muscle. Explain in detail etiogenesis, clinical features and management of DMD (Duchenne Muscular Dysprophy)?
OR
(b) Discuss briefly various Demyelinating diseases? Explain in detail about transverse myelitis?

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Dementia
(b) Ashworth's scale
(c) Types of spasticity
(d) Pyramidal tract
(e) Syriogomyelia
5. **Answer the following question upto 3 pages in length.** [10]
Explain in detail etiogenesis, clinical features and management of Meningitis?
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 etiogenesis, clinical features & management of Gullain-Barre- syndrome?
OR
(b) What is Mental retardation? Explain its causes, manifestations and its management?

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

BF/2020/10

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) Episiotomy
(b) Sequestrum
(c) Conjunctivitis
(d) Bones of internal ear
(e) HbsAg
2. **Answer the following question upto 3 pages in length.** [10]
Discuss different Amputations of lower limb and related physiotherapy.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Discuss Coronary angiography and Angioplasty with pre & post operative physiotherapy.
- OR**
- (b) Describe indications of Thoracotomy and Respiratory Exercises.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Post partum haemorrhage
(b) Colles fracture
(c) Hallux valgus
(d) Craniotomy
(e) Paronychia
5. **Answer the following question upto 3 pages in length.** [10]
Write different classifications of Ulcer and its management.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) What is Exploratory laprotomy, its indications and post operative care from a physiotherapy point of view.
- OR**
- (b) Describe indications of Total abdominal hysterectomy. Describe Fibroid uterus.
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[B.P.T. [4th Prof]

BF/2020/10

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) Post- polio residual syndrome
(b) Syringomyelia
(c) Motor Unit Action Potential
(d) Causes of dementia
(e) Masked Face
2. **Answer the following question upto 3 pages in length.** [10]
Write down classification, pathophysiology, clinical presentation and management of Hematoma.
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 types, clinical picture, medical and surgical management of Common Peroneal Nerve Injury.
- OR
- (b) Write down medical and surgical management used in Spasticity reduction.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) Erb's paralysis
(b) Harvesting syndrome
(c) Reflex sympathetic dystrophy
(d) Stages of Coma
(e) Charcoat's triad
5. **Answer the following question upto 3 pages in length.** [10]
Discuss in detail classification of Motor neuron disease along with clinical presentation.
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 types, clinical picture, medical and surgical management of Brachial Plexus Injury.
- OR
- (b) Write down causes, pathophysiology, clinical presentation and management of the Disorder of trigeminal & Facial nerve injury.
-

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) Write a note in confidentiality.
(b) Role of social worker in rehabilitation.
(c) What do you understand by philosophical statements?
(d) What are common speech disorders?
(e) Milwaukee brace
2. **Answer the following question upto 3 pages in length.** [10]
Discuss the role of NGOs in persons with disability.
3. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe Community based rehabilitation covering historical background, concept and members of team.

OR

- (b) What are the basic principles of administration? Describe the budget preparation for a physiotherapy set up.

SECTION - B

[40 Marks]

4. **Write short Notes up to 5 lines in length.** [5x3=15]
(a) What is the role of proper documentation?
(b) What do you understand by accreditation?
(c) What professional ethics should be followed in field of physiotherapy?
(d) Teaching of transfer activities
(e) Social impact of disability
5. **Answer the following question upto 3 pages in length.** [10]
What are the various ADLs, transfer and wheel chair activities taught to Paraplegics.
6. **Attempt any ONE question out of the following two questions and Answer should be upto 5 pages in length.** [15]
(a) Describe Below knee prosthesis, its checkout, uses and fillings.

OR

- (b) Describe principles of Education and Vocational training of mentally subnormal.
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