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Your Roll No. 163

II Semester Examination – May 2017

BACHELOR of PHYSIOTHERAPY

**Anatomy
(BPT - 201)**

Time Three Hours

Maximum Marks 80

*(Write your Roll No. at the top immediately
on receipt of this question paper.)*

- No student is allowed to leave the Hall before Two hours
- Answer questions as directed in each Section

SECTION - A

1. a) Fill in the blanks (compulsory). (1 × 5 = 5)

- i) Biceps Brachii is innervated by _____
- ii) Shoulder Joint is _____ type of Synovial Joint.
- iii) Lateral spinothalamic tract carries sensation.
- iv) Carpal Tunnel syndrome is caused by injury/compression of _____ nerve.
- v) The Dermis of skin consists of Papillary layer and _____.

b) Define (compulsory questions). (1 × 5 = 5)

- i) Deep fascia
- ii) Fibrous Joint

P.T.O.

- ✓ iii) Inversion of Foot
- ✓ iv) Abduction at shoulder Joint.
- ✓ v) Pleura

c) Write origin and Insertion of the following :
(2 × 5 = 10)

- ✓ i) Rectus Femoris
- ✓ ii) Deltoid
- ✓ iii) First Lumbrical
- ✓ iv) Tibialis Anterior
- ✓ v) Internal Intercostal

SECTION - B

2. Write short note on any six. (5 × 6 = 30)

- ✓ a) Function of Placenta.
- ✓ b) Describe Course and Branches of ~~Radial nerve~~ *Sciatic nerve* in Radial groove.
- ✓ c) Functions of salivary glands.
- ✓ d) Parts of growing Long Bone.
- ✓ e) Classification of types of Synovial Joint.
- f) Arteries supplying the spinal cord.
- g) Dorsal Column - Medial Lemniscal Pathway.
- ✓ h) Fertilization.

SECTION - C

Answer any two questions. *circle of* (15 × 2 = 30)

- 3. a) Describe ~~Coronary Circulation~~ *circle of*. (10)
- b) Add a note on Applied Anatomy. (5)

4. a) Describe female Reproductive System. (10)

b) Add a note on Applied Anatomy. (5)

5. a) Describe Brachial Plexus in detail. *umbra* (10) *please*

b) Add a note on Erb's Palsy and Klumpke's Palsy. (5)

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II Semester Examination – May 2017

BACHELOR of PHYSIOTHERAPY

Physiology

(BPT - 202)

Time : Three Hours

Maximum Marks : 80

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- *No student is allowed to leave the Hall before Two hours*
- *Draw a diagram wherever necessary*
- *Answer questions as per instructions in all Sections.*

SECTION - A

1. Fill in the blanks. (2 × 5 = 10)

- a) Recording of Electrical activity associated with brain is called _____.
- b) Spinal Cord and brain are wrapped in protective membrane known as _____.
- c) Hormone stimulating the secretion of Gastic juice is _____.
- d) Bile salts active the enzyme _____.

P.T.O.

- e) Part of the brain responsible for various emotions like pleasure, fear etc is _____.

2. Define the following : (2 × 5 = 10)

- a) Tidal Volume
- b) Renal threshold for Glucose
- c) Peristalsis
- d) Dead Space
- e) Accommodation Reflex

SECTION - B

3. Write short note on any six : (5 × 6 = 30)

- a) Rods and Cones
- b) Vital Capacity
- c) Hypoxia
- d) Glomerular Filtration Rate (GFR)
- e) Functions of Saliva
- f) Functions of middle ear
- g) Vitamin D
- h) Contraceptives

SECTION - C

Answer any two questions. (15 × 2 = 30)

4. Discuss the chemical control of respiration.

5. Discuss the formation of dilute Urine.

6. Discuss the composition, functions and regulation of Pancreatic Juice.

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II Semester Examination, May 2017

BACHELOR of PHYSIOTHERAPY

Psychology

(BPT - 203)

Time : Three Hours

Maximum Marks : 80

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- *No student is allowed to leave the Hall before Two hours.*
- *Answer questions from all Sections as directed*

SECTION - A

1. Fill in the blanks (Compulsory question)

(2 × 5 = 10)

- a) Observation involves _____ and _____ mental activities.
- b) _____ is an inclination or impulsion to action plus some degree of orientation or direction.
- c) Psychological changes of emotions includes confusion, _____ and clouding of consciousness.

P.T.O.

d) Steps in creative thinking are preparation, incubation, illumination, _____ and _____.

e) F_____ refers to the blocking of behaviour.
Frustration

2. Define (Compulsory question) (2 × 5 = 10)

- a) Autistic behaviour
- ✓ b) Psychological changes in emotion
- c) Stress
- d) Counseling
- e) Creative thinking

SECTION - B

3. Write short note on any six. (5 × 6 = 30)

- ✓ a) Differentiate between long term memory and short term memory.
- ✓ b) Describe Obsessive Compulsive Disorder.
- ✓ c) Briefly outline the somatoform and dissociate disorders.
- ✓ d) List any four qualities of Leadership.
- ✓ e) Differentiate between Classical Conditioning and Operant Conditioning.
- f) Describe Communication with their types.
- g) Behavioral assessment.
- ✓ h) Nature and factors of compliance.

SECTION - C

Attempt any two.

(15 × 2 = 30)

- ✓ 4. Write about the importance of the knowledge of Psychology in Physiotherapy Profession.
5. Explain how personality is determined with reference to psychoanalytic theory.
- ✓ 6. Define Motivation. Explain the role of primary and secondary motives in motivation.

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II Semester Examination – May 2017
BACHELOR of PHYSIOTHERAPY
Fundamentals of Biomechanics and
Exercise Therapy
(BPT - 204)

Time Three Hours

Maximum Marks 80

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on receipt of this question paper.)*

- *No student is allowed to leave the Hall before Two hours*
- *Answer questions as directed in each Section*

SECTION - A

1. Fill in the blanks. (1 × 5 = 5)
- a) Normal Hip Abduction range of motion is _____
 - b) Internal Rotation of shoulder joint is in _____ plane
 - c) _____ is a contraindication for Hydrotherapy
 - d) Buoyancy in water is _____ gravity
 - e) _____ is an example of Derived position.

P.T.O.

2. Give definition of the following : (1 × 5 = 5)

- a) Equilibrium
- b) Buoyancy
- c) Flexion
- d) Gravity
- e) Archimedes Principle.

3. Answer any *four* of the following : (5 × 4 = 20)

- a) Mention various derived positions.
- b) Describe principles of applications of "Spring" in Suspension Therapy.
- c) Describe effect of buoyancy on movements performed under water.
- d) Enumerate various components of Whirlpool bath Apparatus.
- e) Explain laws of floatation.

SECTION - B

Answer any two of the following : (10 × 2 = 20)

4. Describe fundamental position of "Standing". Explain the various positions of standing, their effects, uses and muscle work.

5. Classify various techniques of hydrotherapy. Differentiate between hydrotherapy pool and whirlpool bath.

6. Explain different properties of water and other liquids.

SECTION - C

7. Illustrate and label schematic diagram of suspension therapy apparatus. Describe significance of its various components. Differentiate between apparatus setup for axial and vertical types of suspension therapy.

(15)

8. Write down the indications and contraindications of Soft Tissue Manipulation. Explain principles of patient preparation for various techniques of Soft Tissue Manipulation.

(15)

II Semester Examination – May 2017
BACHELOR of PHYSIOTHERAPY
Principles of Bioelectrical Modalities - II
(BPT - 205)

Time : Three Hours

Maximum Marks : 80

*(Write your Roll No. at the top immediately
on receipt of this question paper.)*

- *No student is allowed to leave the Hall before Two hours.*
- *Answer questions as per instructions in all Sections.*

SECTION - A

1. Fill in the blanks. (Compulsory Question). Write entire statement in the answer book. (2 × 5 = 10)

- a) The nociceptive impulse is carried to the cord along either a slow conducting, _____ or along a faster AB.
- b) The depth of penetration of electromagnetic radiation depends on its _____ and the _____ of the material.
- c) LASER stands for _____.

P.T.O.

- d) Patients on PUVA regimen take a sensitizing drug derived from AE A, two hours before the exposure to UVA rays.
- e) The melted wax in a wax bath needs to be maintained at a temperature range of _____.

2. Explain briefly. (Compulsory Question) :

(4 × 5 = 20)

- a) Cavitation
- b) Scalds
- c) Thermionic Emission
- d) Techniques of application of cold therapy
- e) Theraktin tunnel

SECTION - B

3. Write short note on any six :

(5 × 6 = 30)

- a) Resistance in series and in parallel
- b) Magnet and its properties ✓
- c) Dangers of Microwave Diathermy ✓
- d) Pain gate theory ✓
- e) Lewis's Hunting Reaction
- f) Iontophoresis ✓
- g) Physiological effects of heat therapy ✓
- h) Modified faradic currents ✓

SECTION - C

Answer any *two* questions.

(10 × 2 = 20)

4. Describe the generation, circuit diagram, testing and methods of application of Short Wave Diathermy. Also mention its indications and contraindications.
5. Discuss the charging and discharging of a capacitor and explain the types of capacitors used in physiotherapy department.
6. Describe TENS, its application, treatment indications and contraindications.

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II Semester Examination – May 2017

BACHELOR of PHYSIOTHERAPY

Biochemistry (BPT - 206)

Time : Three Hours

Maximum Marks : 80

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- No student is allowed to leave the Hall before Two hours.
- Answer questions as directed in each Section.

SECTION - A

1. Fill in the blanks (Compulsory question).

(1 × 10 = 10)

- A base may be defined as a chemical compound that removes _____ ions from a solution.
- Approximately one third of the body water exists in the _____ fluid compartment.
- Goitre, a swelling of thyroid glands occurs due to deficiency of _____.
- _____ vitamin participates in the TCA cycle.
- _____ is an enzyme used both in glycolysis and gluconeogenesis.
- The normal pH range of blood is _____ to _____.

P.T.O.

- g) Cholesterol is a precursor of _____.
- h) During muscle contraction _____ bands become shorter whereas _____ bands stay the same length.
- i) _____ is a left handed DNA.
- j) Chromatin is composed of _____ and _____.

2. State whether True or False. (1 × 5 = 5)

- a) It generates 36 mol of ATP per mole of glucose consume.
- b) Plasma proteins are responsible for the buffering capacity of blood.
- c) Immunoglobulins, the glycoproteins that assist in body's defence mechanism are beta globulins.
- d) Palmitic acid has 18 carbon atoms.
- e) The normal level of serum total cholesterol is 20-40 mg/dl.

3. Define the following with suitable examples :

(1 × 5 = 5)

- a) Immunoglobulins
- b) Biotin
- c) Sugar of DNA
- d) Essential and non-essential amino acids
- e) Hill coefficient of hemoglobin.

4. Write short note on any *four*. (5 × 4 = 20)

- ~~a)~~ Factors affecting enzyme action
- ~~b)~~ Lipoproteins
- ~~c)~~ Functions of proteins
- d) Electrolyte balance
- ~~e)~~ Five classes of Immunoglobulins

SECTION - B

Answer any *two* of the following : (10 × 2 = 20)

- 5. Discuss the general reactions of amino acids.
- ~~6.~~ Discuss the Sliding Filament theory.
- ~~7.~~ Discuss the clinical significance of enzymes giving two examples.

SECTION - C

Answer any *one*. (20 × 1 = 20)

8. How are glucogenic amino acids different from ketogenic amino acids? Name the amino acids that are purely glucogenic. What do you understand by inborn errors of metabolism? Discuss such errors associated with the metabolism of Tyrosine and Phenylalanine.

~~9.~~ Write notes on the following (any *two*) :

- a) Composition of bone and teeth
- ~~b)~~ Dehydration and body water balance
- ~~c)~~ Vitamin B-complex and its significance