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Bachelor of Physiotherapy (B.P.T.)
2nd YEAR EXAMINATION, 2011-12
GENERAL AND HEALTH PSYCHOLOGY

Time : 3 Hours]

[Max. Marks : 75

Note: This question paper is divided into two sections A and B.
Attempt both the sections as per instructions.

SECTION A

Attempt any *four* questions of this section.

1. (a) Define Psychology [5]
(b) Discuss experimental method to study behavior. [5]
(c) Industrial Psychology [5]
2. Define personality. Discuss the role of Nervous System [15]
and Physical characteristic on Personality Development.
3. Discuss stress and its Physiological and Psychological [15]
relation to health and sickness.
4. Discuss degenerative disorders. [15]
5. Discuss : [15]
(c) Stages of acceptance as proposed by Kubler Ross.
(d) Psychological aspects of doing addictions.

SECTION B

Attempt all the questions of this section.

6. Write short note on any one: [5]
(c) Discuss in brief Psychological reactions of a
Patient during admission and treatment.
(d) Define thinking.
7. Describe any five : [10]
(a) Free Recall (b) Egoantricity
(c) Reaction Formation (d) Bhatia Performance Test
(e) Needs of Pediatric Patients (f) Nature and Nature controversy

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Bachelor of Physiotherapy (B.P.T.)

2nd YEAR EXAMINATION, 2011-12

PATHOLOGY & MICROBIOLOGY

Time : 3 Hours]

[Max. Marks : 75

- Note:** 1. This question paper is divided into two sections A and B.
Attempt both the sections as per instructions.
2. Use separate Answer Sheets for section A & B.

SECTION A (PATHOLOGY)

[38

Note : Attempt any *three* questions of this section. Question No. 1 is compulsory.

1. *Differentiate between any two of the following :* [14]
 - (a) Lepromatous Leprosy & Tuberculoid Leprosy.
 - (b) Dry and Wet Gangrene
 - (c) Tubercular & Pyogenic Meningitis
2. *Write short notes on any two:* [12]
 - (a) Emphysema
 - (b) Septic Shock
 - (c) Dechenne Muscular Dystrophy
3. *Write short notes on any two:* [12]
 - (a) Cellular events of Acute Inflammation
 - (b) Sickle Cell Anemia
 - (c) Rickets
4. *Write short notes on any two:* [12]
 - (a) Routes of Metastasis
 - (b) Scleroderma
 - (c) Chronic Osteomyelitis

SECTION B (MICROBIOLOGY)

[37

Note : Attempt any *THREE* questions of this section. Question No. 5 is compulsory.

5. (a) Define Sterilization and Disinfection. Write in brief the principle and functioning of an Autoclave. [7

(b) Write short notes on any *two* :

[10

- (i) Categories of Biomedical waste and their disposal.
- (ii) Difference between Gram Negative and Gram Positive Bacteria.
- (iii) Immunoglobulin's
- (iv) Innate Immunity

6. Write difference between any *two*:

[10

- (a) Immediate and delayed hypersensitivity
- (b) Exotoxin and Endotoxin
- (c) Active and Passive immunity
- (d) T Lymphocyte and B Lymphocyte

OR

Give a brief account of bacterial anatomy.

7. Enumerate sexually transmitted diseases. What is AIDS? [10
Name opportunistic infection and malignancies associated with AIDS.

OR

Define Pyrexia of unknown origin (PUO). Give an account of Lab diagnosis of Enteric fever.

8. Write short notes on any *TWO* :

[10

- (i) Immunization Schedule
- (ii) ELISA
- (iii) Zeihl-Neelsen stain
- (iv) Enumerate organism causing food poisoning.

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Bachelor of Physiotherapy (B.P.T.)
2nd YEAR EXAMINATION, 2011-12
PHARMACOLOGY & BIOCHEMISTRY

Time : 3 Hours]

[Max. Marks : 75

Note: 1. This question paper is divided into two sections A and B. Attempt both the sections as per instructions.

2. Use separate Answer Sheets for section A & B.

SECTION A (PHARMACOLOGY)

[38

Note : Attempt any *three* questions of this section. Ques.No.1 is compulsory.

1. Discuss Mechanism of action, therapeutic uses and adverse effects of following : [14
 - (a) Dantrolene Sodium
 - (b) Captopril
2. Explain in brief : [12
 - (a) Receptor occupation theory
 - (b) Plasma half life of drugs
3. Write short notes on any *two* : [12
 - (a) Surface anesthesia
 - (b) Treatment of Status Asthmatics
 - (c) Prednisolone
4. Discuss the rational behind the use of : [12
 - (a) Low dose aspirin in patient of myocardial infarction .
 - (b) Triple drug therapy for pulmonary Tuberculosis.

SECTION B (BIOCHEMISTRY)

[37

Note : Attempt any *three* questions of this section. Ques.No.5 is compulsory.

5. Attempt any *five* parts in brief: [3×5=15
 - (a) Differentiate between DNA & RNA.

- (b) What are Polysaccharides? Classify them and write biomedical importance of Polysaccharides.
 - (c) Outline Urea Cycle. What is the site of Urea Synthesis?
 - (d) Difference between competitive and non-competitive enzyme inhibition.
 - (e) List the factors influencing enzyme activity. Discuss the effect of pH and temperature on reaction velocity.
 - (f) Describe in brief dietary requirement, sources, function and deficiency manifestation of Vitamin-A.
6. *Write short notes on:*
- (a) Cori Cycle [3]
 - (b) Epimers [2]
 - (c) Isoelectric pH [2]
 - (d) Artherosclerosis [2]
 - (e) Ketone bodies [2]
7. *Attempt all the parts:*
- (a) Difference between Kwashiorkor and Marasmus. [2]
 - (b) Hormonal regulation of blood glucose. [3]
 - (c) Protein denaturation [2]
 - (d) Isoenzyme [2]
 - (e) Nucleotide [2]
8. *Attempt all the parts:*
- (a) β -oxidation of fatty acids [3]
 - (b) Essential Amino acids [2]
 - (c) Excretion of H^+ by kidney [2]
 - (d) Transamination [2]
 - (e) Regulatory steps in glycolysis [2]

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Bachelor of Physiotherapy (B.P.T.)
2nd YEAR EXAMINATION, 2011-12
ELECTROTHERAPY-II

[Max. Marks : 75]

Time : 3 Hours]

Note: Attempt any five questions.

1. Explain the production of ultrasound waves. Discuss its uses in acute and chronic injuries.
2. Explain therapeutic effects of Short Wave Diathermy. Discuss its techniques of application.
3. Explain the production of medium frequency currents in the tissues. Discuss its role in pain relief and muscle strengthening.
4. Discuss the principles, therapeutic effects, indications and limitations of BIOFEEDBACK.
5. Explain the basic principles, therapeutic uses and indications of LASER.
6. Write short notes on any three:
 - (a) Half Depth Value.
 - (b) Beam Non-uniformity ratio (Ultrasound)
 - (c) Electroneurography
 - (d) Therapeutic effects of cold
 - (e) Physical principles of Electro-magnetic radiation.

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Bachelor of Physiotherapy (B.P.T.)

2nd YEAR EXAMINATION, 2011-12

EXERCISE THERAPY - II

Time : 3 Hours]

[Max. Marks : 75

Note: Attempt any *five* questions.

1. Define Gait Variables and Compare the RLA and Conventional Gait Terminologies. [15]
2. Discuss the relevance of split table and angle of pull in Lumbar Traction with Contraindication. [15]
3. Describe the Assessment of Knee joint. [15]
4. Describe the technique of Hip Mobilization. [15]
5. Describe various types of walking aids with their measurement. Describe the technique of getting up from sitting position ? [15]
6. Discuss possible deviations occurring due to a long C shaped ® side scoliosis. [15]
7. Discuss the Physiological and therapeutic effects of water in Hydrotherapy. [15]
8. Compare and contrast between the Isokinetic and Isotonic Training. Explain various contra-indications of Strengthening. [15]

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