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### SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T. AND FOURTH SEMESTER BACHELOR OF PERFUSION TECHNOLOGY DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: PATHOLOGY/ PATHOLOGY II (PFT 204) (2010 BATCH (NR)/2011 BATCH/2010 SCHEME/2011 SCHEME/GS)

Wednesday, December 17, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer ALL questions.
- ✓ Illustrate your answers with diagrams wherever necessary.
- 1. Classify anemia. List the clinical features of iron deficiency anemia. Discuss the laboratory diagnosis of the same.

(2+2+4 = 8 marks)

2. Define granulation tissue. Explain the process of healing by primary intention. List the factors affecting wound healing.

(1+3+3 = 7 marks)

- 3. Write short notes on:
- 3A. Rheumatoid arthritis
- 3B. Etiology and types of pneumonia
- 3C. Types of oedema
- 3D. Laboratory diagnosis of cancer
- 3E. Mode of infection and clinical features of hepatitis B

 $(5 \text{ marks} \times 5 = 25 \text{ marks})$ 

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# SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/FOURTH SEMESTER B. PFT DEGREE EXAMINATION – DECEMBER 2014

## SUBJECT: MICROBIOLOGY/MICROBIOLOGY II (PFT 206) (2010 BATCH/2011 BATCH/2010 SCHEME/2011 SCHEME/GS)

Thursday, December 18, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer all questions. Draw diagrams wherever appropriate.
- 1. Define sterilization and disinfection. Explain dry heat method of sterilization.

(1+1+6 = 8 marks)

2. Define and classify immunity. Describe the mechanisms of innate immunity.

(1+2+4=7 marks)

- 3. Write short notes on:
- 3A. Laboratory diagnosis of pulmonary tuberculosis
- 3B. Bacterial cell wall
- 3C. Laboratory diagnosis of Staphylococcus aureus
- 3D. Prophylaxis of poliomyelitis
- 3E. Robert Koch

 $(5 \text{ marks} \times 5 = 25 \text{ marks})$ 

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## SECOND YEAR B.P.T./B.O.T./B.Sc. C.V.T./FOURTH SEMESTER BACHELOR OF CLINICAL OPTOMETRY/B.PFT DEGREE EXAMINATION – DECEMBER 2014

## SUBJECT: PHARMACOLOGY/PHARMACOLOGY II (PFT 202) (2010 BATCH/2011 BATCH/2011 SCHEME/GS 2011 & 2012 BATCH/GS)

Friday, December 19, 2014

Time: 10:00-11:30 Hrs.

Answer the following questions:

Max. Marks: 40

Define the following terms:

- 1A. Therapeutic index
- 1B. Potency

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- 1C. Biotransformation
- 1D. Zero order kinetics

 $(1 \text{ mark} \times 4 = 4 \text{ marks})$ 

- 2. List two advantages and two disadvantages of the following routes of drug administration:
- 2A. Oral
- 2B. Intramuscular

 $(2 \text{ marks} \times 2 = 4 \text{ marks})$ 

- 3. List two drugs belonging to the following groups and list two therapeutic uses of any one of them:
- 3A. Macrolides
- 3B. Selective COX-2 inhibitors
- 3C. Adrenergic agonists
- 3D. Opioids

 $(2 \text{ marks} \times 4 = 8 \text{ marks})$ 

- 4. Mention two drugs each useful in the following conditions and mention two specific adverse effects of any one of them:
- 4A. Tuberculosis
- 4B. Amoebiasis
- 4C. Malaria
- 4D. Epilepsy

 $(2 \text{ marks} \times 4 = 8 \text{ marks})$ 

- 5A. Enumerate two glucocorticoids and mention their two uses and two specific adverse effects.
- 5B. Write a short note on drug nomenclature.

(3+3 = 6 marks)

- 6A. Enumerate two anticancer drugs and mention their two general toxicities.
- 6B. Mention two beta lactam antibiotics and explain the mechanism of action of any one of them.

(2+3 = 5 marks)

- 7. Mention two examples for each of the following groups of drugs:
- 7A. Anticholinergics
- 7B. Calcium channel blockers
- 7C. Anthelmintics
- 7D. Proton pump inhibitors
- 7E. Aminoglycosides

 $(1 \text{ mark} \times 5 = 5 \text{ marks})$ 



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### SECOND YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2014

## SUBJECT: DEVELOPMENT ACROSS THE LIFE SPAN (2011 BATCH)

Saturday, December 20, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer ALL questions.
- ∠ Long questions:
- 1. Describe the development of social skills in infancy and early childhood.

(10 marks)

2. Write the assumptions of Freud's theory of psychosexual development influencing a person's ability.

(10 marks)

- 3. Write short notes on:
- 3A. Factors contributing to self-concept and identity in adolescence
- 3B. Sensory development of child in first six months
- 3C. Five types of gross motor control
- 3D. Epigenetic principle

 $(5 \text{ marks} \times 4 = 20 \text{ marks})$ 

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### SECOND YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2014

# SUBJECT: BIOMECHANICS AND KINESIOLOGY (2011 BATCH)

Monday, December 22, 2014

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- Answer ALL questions. Draw diagram wherever necessary.
- **∠** Long Questions:
- 1. Describe spine column structures and its movements. Explain pelvic girdle.

(12+8 = 20 marks)

2. Describe temporal variable in normal gait and explain deviation in hemiplegic and foot drop gait.

(10+10 = 20 marks)

- 3. Write short notes on:
- 3A. Properties of dense fibrous tissue and bone

(5+5 = 10 marks)

3B. Describe joints and movements of the foot.

(10 marks)

3C. Describe shunt and spurt muscles and its influence in joint motion.

(10 marks)

3D. Functions of the hand.

(10 marks)

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#### SECOND YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2014

## SUBJECT: THERAPEUTIC ACTIVITIES AND EXERCISES (2011 BATCH)

Tuesday, December 23, 2014

Time: 10:00-13:00 Hrs.

Max. Marks: 80

#### Answer ALL questions.

#### ∠ Long questions:

1. Define 'activities health'. What are the indicators that determine if an individual is in a state of activities health?

(5+15 = 20 marks)

2. Explain the components of the client centered model with suitable diagram.

(15+5 = 20 marks)

- 3. Short Notes:
- 3A. Mind-brain-body performance subsystem
- 3B. Purpose of activity analysis in Occupational therapy
- 3C. Analyzing activities from the perspective of time
- 3D. Strategies to improve neuromuscular control

 $(10 \text{ marks} \times 4 = 40 \text{ marks})$ 



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#### SECOND YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2014

SUBJECT: OCCUPATIONAL PERFORMANCE: PERSONAL AND CONTEXTUAL FACTORS (2011 BATCH)

Wednesday, December 24, 2014

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- Answer ALL questions.
- ∠ Long Answer Questions:
- 1. Define stress. Discuss in detail response system of body while encounter a stressor.

(2+18 = 20 marks)

2. Define and classify edema. Discuss in detail anti-edema intervention strategies.

(2+3+15 = 20 marks)

- 3. Write short notes on:
- 3A. Define muscle tone and discuss about Ashworth scale

(2+8 = 10 marks)

3B. Explain about higher level thinking abilities

(10 marks)

3C. Define construction apraxia and discuss assessment procedure for the same.

(4+6 = 10 marks)

3D. Explain mechanism of skin damage due to loss of protective sensation.

(10 marks)