Reg. No.		

# SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T./ B.Sc. R.R.T. & D.T/ FOURTH SEMESTER B. PFT DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: PATHOLOGY

(2010 REGULATION/2011 SCHEME/2010 SCHEME/2011 SCHEME/BDT 201/PFT 204-2014 SCHEME)

Thursday, December 15, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer ALL questions. Ø
- Illustrate your answers with diagrams wherever necessary. Ø
- Define and classify shock. Discuss the etiopathogenesis of septic shock. 1.

(2+2+3 = 7 marks)

Define and classify anemias. Describe the lab investigations with blood and bone marrow 2. findings in Megaloblastic anemia.

(2+2+4 = 8 marks)

- Write short notes on: 3.
- 3A. Necrosis
- Etiopathogenesis of rheumatic heart fever
- 3C. Definition and FAB classification of acute myeloid leukemia
- 3D. Primary pulmonary tuberculosis
- Causes of thrombocytopenia 3E.

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

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# SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT/ FOURTH SEMESTER B. PFT DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: MICROBIOLOGY

(COMMON FOR 2010 REGULATION/2011 SCHEME/2010 SCHEME/2011 SCHEME/BDT 202/PFT 206-2014 SCHEME)

Friday, December 16, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Draw Diagrams wherever appropriate.
- Classify hypersensitivity. With suitable examples discuss the mechanism of immediate 1. hypersensitivity.

(3+5 = 8 marks)

Discuss the pathogenesis and laboratory diagnosis of hepatitis B virus infection. 2.

(3+4 = 7 marks)

- Write short notes on: 3.
- 3A. Louis Pasteur
- 3B. Bacterial flagella
- 3C. Virion structure
- 3D. Investigation of nosocomial infections
- 3E. Laboratory diagnosis of Streptococcus pneumonia infection

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

Reg. No.		

# SECOND YEAR B.P.T./B.O.T./B.Sc. M.I.T./B.Sc. C.V.T./B.Sc. R.R.T. & D.T. **DEGREE EXAMINATION – DECEMBER 2016**

## SUBJECT: PHARMACOLOGY

(COMMON FOR 2010 REGULATION/2011 BATCH/2012 SCHEME/2011 SCHEME/BDT 203)

Saturday, December 17, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

# Answer the following questions:

- 1A. Mention two advantages and two disadvantages of intramuscular route of drug administration. List two drugs that can be given by this route.
- 1B. Describe the pharmacological effects of adrenaline on cardiovascular system.
- 1C. List two glucocorticoids and explain their anti-inflammatory action.
- 1D. List two drugs useful in chronic gout and explain the mechanism of action of any one of them.

 $(3 \text{ marks} \times 4 = 12 \text{ marks})$ 

- Define the following terms with an example for each: 2.
- 2A. Synergism
- 2B. Teratogenicity
- 2C. Generic name of a drug

 $(2 \text{ marks} \times 3 = 6 \text{ marks})$ 

- 3A. List two sources of drugs with an example for each.
- 3B. Mention four differences between aspirin and paracetamol.
- 3C. List two classes of drugs with an example for each useful in angina.

 $(2 \text{ marks} \times 3 = 6 \text{ marks})$ 

- Mention two examples and two therapeutic uses of the following group of drugs: 4.
- 4A. Beta lactam antibiotics
- 4B. Benzodiazepines
- 4C. Anticoagulants
- 4D. Proton pump inhibitors

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

- List two drugs used in the following conditions: 5.
- 5A. Parkinsonism
- 5B. Diabetes mellitus
- 5C. Cough
- 5D. HIV infection
- 5E. Epilepsy

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

- List one example and one specific adverse effect of the following group of drugs: 6.
- 6A. Loop diuretics
- 6B. ACE inhibitors
- 6C. Aminoglycosides

 $(1 \text{ mark} \times 3 = 3 \text{ marks})$ 

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# SECOND YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2016

# SUBJECT: PSYCHOLOGY (2010 REGULATION)

Monday, December 19, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

## 1. Essay type questions (attempt any TWO)

- 1A. What are the methods of psychology?
- 1B. Define personality and explain various theories of personality.
- 1C. What is counselling? Write various types of counselling.

 $(15 \text{ marks} \times 2 = 30 \text{ marks})$ 

- 2. Write short notes on any SIX:
- 2A. Explain classical conditioning.
- 2B. Write two theories of emotions.
- 2C. Dynamic tradition in clinical psychology
- 2D. General adaptation syndrome (GAS)
- 2E. Any two theories of intelligence
- 2F. What are projective test
- 2G. Time out procedure
- 2H. Laws of learning
- 2I. Ellis approach to cognitive therapy

 $(5 \text{ marks} \times 6 = 30 \text{ marks})$ 

- 3. Definitions (attempt any FIVE)
- 3A. Define illusion
- 3B. Define learning
- 3C. What is extinction
- 3D. Define spontaneous recovery
- 3E. Counselling
- 3F. Intelligence
- 3G. Psychological assessment

 $(3 \text{ marks} \times 5 = 15 \text{ marks})$ 

- 4. Multiple Choice Questions:
- 4A. Which one is not a basic emotion?
  - i) Happiness
- ii) Sadness

4B.	Clas	ssical conditioning was	giver	by	
	i)	Rachel	ii)	Fukouka	
	iii)	Watson	iv)	Pavlov	
4C.	Perc	eption involves the pro	ocess (	of sensory stimuli.	
	i)	Fixation	ii)	Interpretation	
	iii)	Attention	iv)	Involvement	
4D.	Lear	ning is relatively	_ char	nge in the behaviour.	
	i)	Latent	ii)	Permanent	*
	iii)	Hidden	iv)	Obvious	
4E.	Train	approach of personali	ty is b	у	
	i)	Carl Rogers	ii)	Alfred Addler	
	iii)	Cattle	iv)	Sheldon	
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 $(1 \text{ mark} \times 5 = 5 \text{ marks})$ 

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# SECOND YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2016

# SUBJECT: BIOMECHANICS AND EXERCISE THERAPY – II (2010 REGULATION)

Tuesday, December 20, 2016

Time: 10:00-13:00 hrs.

Max. Marks: 80

### Answer ALL questions.

### **SECTION A: BIOMECHANICS**

#### 

1. Discuss the biomechanics of the hip joint.

(10 marks)

### 2. Write short notes on:

- 2A. Explain the kinematics of the subtalar joint.
- 2B. Write in detail about the determinants of normal gait.
- 2C. Discuss in detail the role of dynamic stabilizers of the shoulder joint.
- 2D. Explain the role of patella-femoral joint with respect to joint reaction force at knee joint.

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

### 3. Write brief answers on:

- 3A. Lumbopelvic rhythm
- 3B. Mention the medial and lateral stabilizers of elbow joint
- 3C. What are the arches of the foot?
- 3D. Stress-strain curve
- 3E. Mention the phases of gait.

 $(2 \text{ marks} \times 5 = 10 \text{ marks})$ 

# **SECTION B: EXERCISE THERAPY**

# Essay question:

4. Write in detail the indications and contraindications of joint mobilization. Add a note on grades of mobilization.

(5+5 = 10 marks)

### 5. Write short notes on:

- 5A. Write the principles of PNF.
- 5B. Explain delorme protocol for strengthening.

- 5C. Explain the screw home mechanism for knee joint.
- 5D. Explain in detail the types of traction and its indications and contraindications.

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

## 6. Write brief answers on:

- 6A. Any two principles of Functional Re-education Exercises.
- 6B. Mention the types of crutches.
- 6C. Mention the components of trick movements.
- 6D. Write any two precautions during stretching.
- 6E. Define co-ordination. Mention any two causes for incoordination.

 $(2 \text{ marks} \times 5 = 10 \text{ marks})$ 

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# SECOND YEAR B.P.T. DEGREE EXAMINATION - DECEMBER 2016

# SUBJECT: ELECTROTHERAPY (2010 REGULATION)

Wednesday, December 21, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

### Answer ALL the questions.

### 1. Essay questions:

1A. Describe the production of SWD. Explain the Physiological effects of SWD.

(5+5 = 10 marks)

1B. Explain any four local therapeutic effects of UVR. Add a note on dangers and precautions for UVR application.

(6+4 = 10 marks)

### 2. Write short notes on:

- 2A. Explain pain gate theory
- 2B. Compare paraffin wax bath and moist heat
- 2C. What is Iontophoresis? Mention the precautions and dangers of Iontophoresis
- 2D. Methods of applications of LASER for pressure sore
- 2E. Physiological effects of cryotherapy
- 2F. Faradic Galvanic test
- 2G. Methods of applications of IFT
- 2H. Electromagnetic spectrum

 $(5 \text{ marks} \times 8 = 40 \text{ marks})$ 

### . 3. Write brief answers on:

- 3A. Define Arndt-Schultz law
- 3B. What is half value depth?
- 3C. Name any four superficial heating modalities
- 3D. Define dielectric constant
- 3E. Mention the different methods of heat transfer
- 3F. What is beat frequency?
- 3G. Classify Ultra Voilet Radiation
- 3H. Types of IRR generators
- 3I. Define Rheobase
- 3J. Define Joules law

 $(2 \text{ marks} \times 10 = 20 \text{ marks})$