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 – JUNE 2017

SUBJECT: PATHOLOGY

(2010 REGULATION/2011 & 2015 SCHEME/2010 & 2015 SCHEME/2011 & 2015 SCHEME/BDT 201/2015 & 2014 SCHEME)

Friday, June 02, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer ALL questions.
- ✓ Illustrate your answers with diagrams wherever necessary.
- 1. Define necrosis. Mention and explain four morphologic types of necrosis. Give one example for each.

(2+4+2 = 8 marks)

2. Define neoplasia. List five differences between benign and malignant tumors.

(2+5 = 7 marks)

- 3. Write short notes on:
- 3A. Etiology of atherosclerosis
- 3B. Peripheral blood findings of iron deficiency anaemia
- 3C. Clinical features and microscopy of lepromatous leprosy
- 3D. Complications of diabetes mellitus
- 3E. Definition, etiology and clinical features of chronic bronchitis

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

Reg. No.

SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT/FOURTH SEMESTER B. PFT DEGREE EXAMINATION – JUNE 2017

SUBJECT: MICROBIOLOGY

(COMMON FOR 2010 REGULATION/2011 & 2015 SCHEME/2010 & 2015 SCHEME/2011 & 2015 SCHEME/BDT 202/2015 & 2014 SCHEME)

Monday, June 05, 2017

T'	1	0	٠.	0	0	1	1	.20	TT
Time:	- 1		1:	U	u)	-	- 1	:00	HIS.

Max. Marks: 40

- **∠** Draw Diagrams wherever appropriate.
- 1. Define and classify hypersensitivity reactions. Discuss the mechanism of IgE mediated hypersensitivity reaction.

(1+2+5 = 8 marks)

2. Discuss the pathogenesis and laboratory diagnosis of cholera.

(3+4 = 7 marks)

- 3. Write short notes on:
- 3A. Bacterial growth curve
- 3B. Prophylaxis of poliomyelitis
- 3C. Autoclave
- 3D. Laboratory diagnosis of HIV infection
- 3E. Gram negative bacterial cell wall

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



|--|

SECOND YEAR B.P.T./B.O.T./B.Sc. M.I.T./B.Sc. C.V.T./B.Sc. R.T./B.Sc. R.R.T. & D.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: PHARMACOLOGY

 $(COMMON\;FOR\;2010\;REGULATION/2011\;\&\;2015\;SCHEME/2012\;SCHEME/2011\;\&\;2015\;SCHEME/2015\;SCHEME/2013\\$

Wednesday, June 07, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer the following questions:

- 1. Explain the following terms with an example:
- 1A. Idiosyncrasy
- 1B. Synergism
- 1C. Chemoprophylaxis
- 1D. Local anesthetics

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

- 2. Mention one advantage and one disadvantage of the following routes of drug administration:
- 2A. Transdermal
- 2B. Subcutaneous

 $(1 \text{ mark} \times 2 = 2 \text{ marks})$

- 3A. Explain the mechanism of action of chloroquine.
- 3B. List two classes of antiasthmatic drugs with an example for each.
- 3C. List two cholinergic receptors and mention two adverse effects of atropine.

(2+2+2=6 marks)

- 4. Mention two examples and two uses of the following group of drugs:
- 4A. Proton pump inhibitors
- 4B. NSAIDs
- 4C. ACE inhibitors

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

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

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

- 6A. List two anticoagulants and explain the mechanism of action of any one.
- 6B. List two beta blockers and mention their two therapeutic uses and two adverse effects.
- 6C. Define first order kinetics.
- 6D. List two aminoglycosides and mention their four common properties.
- 6E. List two glucocorticoids and mention their two uses and two adverse effects.

(3+3+1+3+3 = 13 marks)

Reg. No.			
	1		

SECOND YEAR B.P.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: PSYCHOLOGY (2010 REGULATION)

Friday, June 09, 2017

Time: 10:00-13:00 Hrs.	Max. Marks: 8	3(
		-

1.	Choose the single best answer:
1A.	Which of the following is a projective test?
	i) WAIS ii) DAT iii) TAT iv) MMPI
1B.	Which approach to personality emphasizes the innate goodness of people and their desire to grow? i) Humanistic ii) Psychodynamic iii) Learning iv) Biological and evolutionary
1C.	The curve of forgetting was first drawn by: i) Thorndike ii) Ebbinghaus iii) Skinner iv) Pavlov
1D.	Salivation elicited by the sound of the bell in Pavlov's experiment is: i) Conditioned response ii) Unconditioned response iii) Conditioned stimulus iv) Unconditioned stimulus
1E.	Which one of the following is a supportive intervention? i) Chaining ii) Desensitization iii) Aversion iv) Ventilation (1 mark × 5 = 5 marks)
2.	Write definitions on any FIVE of the following:
2A. 2B. 2C. 2D. 2E. 2F. 2G.	Psychology Observation Learning Attention Projective tests illusion Motivation (3 marks × 5 = 15 marks)
3.	Write short notes on any SIX of the following:

- 3A. Phobia
- 3B. Cognitive model of mental disorder
- 3C. Scope of clinical psychology
- 3D. Any two theories of emotion

- 3E. Ellis's approach of cognitive therapy
- 3F. Crisis reaction
- 3G. Biological theories of motivation
- 3H. Sources of stress
- 3I. Application of learning principles

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

4. Write essay on any TWO of the following:

- 4A. Define personality and discus psychoanalytic theory of personality in detail.
- 4B. Discuss any three methods of psychology.
- 4C. Discus the various perspectives of concept of normality and abnormality.

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



Reg. No.					

SECOND YEAR B.P.T. DEGREE EXAMINATION – JUNE 2017

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

Monday, June 12, 2017

Time: 10:00-13:00 hrs.

Max. Marks: 80

Answer ALL questions.

SECTION A: BIOMECHANICS

1. Discuss the ligaments of the vertebral column. Discuss the lumbopelvic rhythm.

(5+5 = 10 marks)

- 2. Write short notes on:
- 2A. Discuss the ligaments of the knee.
- 2B. Discuss the muscle synergies in relation to maintaining postural stability.
- 2C. Discuss the scapulohumeral rhythm.
- 2D. Discuss the stance phase and swing phase of the gait cycle.

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

3. Write brief answers on:

- 3A. What is active insufficiency of a muscle?
- 3B. List the rotator cuff muscles.
- 3C. What is lock/screw home mechanism?
- 3D. What is step length and stride length?
- 3E. What is Insall-Salvati index?

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

SECTION B: EXERCISE THERAPY

Essay question:

4. What is incoordination? What are the principles of re-education? Discuss Frenkel's exercise.

(2+3+5 = 10 marks)

5. Write short notes on:

- 5A. Discuss the contraindications and precautions for strength training.
- 5B. Discuss Rhythmic Stabilization.

- 5C. List the indication and contraindications in joint mobilization.
- 5D. Discuss the adjuncts used in stretching for local relaxation.

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

6. Write brief answers on:

- 6A. Write the grades of mobilization.
- 6B. What is the concave-convex rule?
- 6C. What is the method of measurement of elbow crutch?
- 6D. What is the D2 flexion pattern of the upper limb?
- 6E. Define trick movements and give an example.

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

				 	-	
Reg. No.	=					

SECOND YEAR B.P.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: ELECTROTHERAPY (2010 REGULATION)

Wednesday, June 14, 2017

Time: 10:00-13:00 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. Essays questions:

1A. Explain the application of SWD for Sinusitis. Add a note on therapeutic effects of SWD.

(5+5 = 10 marks)

1B. Define Iontophoresis. Explain the physiological effects of direct currents.

(2+8 = 10 marks)

2. Write short notes on:

- 2A. Photochemotherapy
- 2B. Ring main circuit
- 2C. Production of ultrasound therapy
- 2D. Explain the different types of therapeutic low frequency currents with diagram
- 2E. Faradic foot bath
- 2F. Explain the physiological effects of heat
- 2G. Explain the physical properties of LASER
- 2H. Compare TENS and IFT

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

3. Write brief answers on:

- 3A. What is SD Curve?
- 3B. What is resting membrane potential?
- 3C. Difference between dry and moist heat
- 3D. What is extracorporeal shock wave therapy?
- 3E. Define inductive reactance.
- 3F. Define Cosine law.
- 3G. Define biofeedback.
- 3H. Mention any four filters used in Ultra Voilet Radiation.
- 3I. What is low TENS?
- 3J. Mention any four contra indications for infra-red radiation

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