Reg. No.

## MANIPAL UNIVERSITY

## FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION - JUNE 2010

#### SUBJECT: ANATOMY

### (COMMON FOR BOTH OLD & NEW REGULATIONS)

Monday, June 07, 2010

Time: 10.00-13.00 Hours.

Max. Marks: 80

- 1. Give a brief account of shoulder joint under the following headings:
- 1A. Type, subtype and bones taking part
- 1B. Ligaments
- 1C. Movements and muscles producing them
- 1D. Scapulohumoral rhythm
- 1E. Dislocations

(3+6+7+2+2 = 20 marks)

- 2. Give a brief account of tibial nerve under the following headings:
- 2A. Origin, root value
- 2B. Course and relations
- 2C. Area of cutaneous distribution
- 2D. Muscles supplied by it
- Applied aspects

(2+8+2+5+3 = 20 marks)

## 3. Write briefly on:

- 3A. Circle of Willis
- 3B. Dorsal column tracts
- Internal capsule
- 3D. Lateral ventricles
- 3E. Hypothalamus

 $(5\times5=25 \text{ marks})$ 

#### 4. Write short notes on:

- 4A. Neurons
- 4B. Male urethra
- 4C. Right coronary artery
- 4D. Pancreas
- 4E. Diaphragm

 $(3\times5 = 15 \text{ marks})$ 

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# FIRST YEAR B.P.T./B.O.T./B.Sc.M.L.T./B.Sc.N.M.T/B.Sc.R.T. /B.Sc.M.R.T. DEGREE EXAMINATION – JUNE 2010

## SUBJECT: PHYSIOLOGY

Wednesday, June 09, 2010

Time: 10.00-13.00 Hours.

Max. Marks: 80

- Answer all questions.
- Draw a labelled diagram of neuromuscular junction. Write the sequence of events of 1. neuromuscular transmission

(10 marks)

Describe the actions of thyroid hormones. Add a note on Cretinism

(10 marks)

- Write short notes on the following: 3.
- 3A. Facilitated diffusion.
- 3B. ABO system of blood grouping.
- Stages of deglutition.
- 3D. Functions of cerebrospinal fluid.
- Baroreceptor role in regulation of blood pressure.
- Oxygen transport.
- 3G. Functions of kidney.
- 3H. Functions of placenta.

 $(5\times8 = 40 \text{ marks})$ 

- Write brief answers to the following questions: 4.
- 4A. List the functions of rods and cones.
- 4B. Give the cause for each of the following conditions:
- Cushing's syndrome ii) Diabetes mellitus
- 4C. Mention two actions of estrogen.
- 4D. What is neutrophilia? Give one condition for it.
- 4E. Mention any two sensations carried by the dorsal column tract.
- 4F. Define hypoxia. Give one cause for it.
- 4G. Define blood pressure. Give its normal value.
- 4H. Enumerate the functions of liver.
- 4I. Define glomerular filtration rate. Give its normal value.
- 4J. Name the muscle proteins that have a role in contraction.

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



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(4 marks)

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# FIRST YEAR B.P.T./B.O.T/ B.Sc. M.L.T./ B.Sc. N.M.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc.C.V.T **DEGREE EXAMINATION - JUNE 2010**

# SUBJECT, DIOCHEMISTRY

	(NEW REGULATIONS)	
an:	Friday, June 11, 2010	
Tim	ne: 10.00-11.30 Hours	lax. Marks: 40
1.	With the help of graphs, explain the effect of competitive and non competitive enzyme activity.	e inhibitors on
		(4 marks)
2.	Classify lipids giving one example for each class.	
		(3 marks)
3.	Tabulate THREE similarities and THREE differences between starch and glyco-	
		(3 marks)
4.	With the help of schematic diagram, explain the biochemical changes taking pla with lactose intolerance after the intake of milk.	ace in a patient
		(4 marks)
5.	Explain with reactions, the process of glycolysis.	
		(7 marks)
6.	Write short notes on the importance of dietary fibers.	
		(3 marks)
7.	Explain the process of protein digestion in the stomach.	(2 maulta)
		(3 marks)
8.	List four similarities and four differences between marasmus and kwashiorkor.	(4 marks)
9.	Write the reactions of the urea cycle.	
		(5 marks)
10.	Describe the Watson and Crick model of DNA.	

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## FIRST YEAR B.O.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: PSYCHOLOGY - I

Monday, June 14, 2010

Time: 10:00-13:00 Hrs. Max. Marks: 80

- Answer ALL questions.
- All questions carry equal marks.
- 1. Define motivation. Discuss the theories of motivation.
- 2. What is learning? Describe the conditioning models of learning.
- 3. Describe the methods to assess intelligence of a child.
- 4. Discuss the applications of psychology in various fields.
- 5. Describe any two methods of study in psychology.
- 6. What is thinking? Discuss any two types of thinking.
- 7. What is short term memory? How does it differ from long term memory?
- 8. Discuss the factors contributing to the development of prejudice.



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# FIRST YEAR B.O.T. DEGREE EXAMINATION - JUNE 2010

# SUBJECT: OCCUPATIONAL THERAPY – I (Therapeutic activities)

Wednesday, June 16, 2010

Time: 10:00-13:00 Hrs. Max. Marks: 80

Answer ALL the questions.

 Explain the philosophical base for the use of activities. Discuss in detail the characteristics of occupational therapy activity.

(7+8 = 15 marks)

- Discuss the phases of psychosocial adaptive responses following a physical dysfunction.
  (15 marks)
- Explain the concepts of human and non human environment in the practice of OT.
  (15 marks)
- Define occupational dysfunction and explain in detail the consequences of occupational loss.
  (3+12 = 15 marks)

Short Notes:

5.

- Theory focused activity analysis.
- 5B. Therapeutic use of self.
- Problem solving as a tool of Occupational Therapy practice.
- The technology model of assistive technology.

 $(5\times4 = 20 \text{ marks})$ 

