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MANIPAL UNIVERSITY

FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION - JUNE 2014

SUBJECT: ANATOMY (NR/2011 BATCH)

Tuesday, June 03, 2014

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4C. Right lung

4E. Fibrous joints

4D. Para nasal air sinuses

Max. Marks: 80 Time: 10.00-13.00 Hours. 1. Explain the knee joint under the following headings: 1A. Articular surfaces 1B. Intrascapsular structures 1C. Locking and unlocking movements and muscles producing them 1D. Nerve supply 1E. Applied anatomy (2+6+6+2+4 = 20 marks)2. Explain the brachial plexus under the following headings: 2A. Formation 2B. Parts 2C. Branches of different parts 2D. Applied anatomy (3+2+10+5=20 marks)Write briefly on: 3A. Hypothalamus and its functions 3B. Fourth ventricle 3C. Cranial nerves attached to the brainstem 3D. Spinal cord 3E. Cerebellum $(5 \text{ marks} \times 5 = 25 \text{ marks})$ 4. Write short notes on: 4A. Skeletal muscle 4B. Stomach

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

Reg. No.	

FIRST YEAR BOT/B.Sc. MLT/B.Sc. CVT/B.Sc. MIT/B.Sc. RT/B.Sc. NMT/B.Sc. RRT & DT/B.Sc. MRT/M.Sc. NMT DEGREE EXAMINATION – JUNE 2014

SUBJECT: PHYSIOLOGY

Thursday, June 05, 2014

Time: 10.00-11.30 Hours,

Max. Marks: 40

Answer ALL questions. Draw diagrams wherever necessary.

1. Essay questions:

- 1A. Define cardiac output. Give its normal value and describe the factors regulating cardiac output.
- 1B. List any five actions of thyroid hormones.
- 1C. Define erythropoiesis. Mention its stages and list any two factors regulating it.
- 1D. Define a reflex. Draw a neat labeled diagram of a reflex arc.

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

2. Write short answers for the following:

- 2A. Write any two differences between simple diffusion and facilitated diffusion.
- 2B. Draw a neat labeled diagram of a neuron.
- 2C. List any four hormones secreted by anterior pituitary.
- 2D. Name the two divisions of autonomic nervous system.
- 2E. Mention any two contraceptive methods in males.
- 2F. List two functions of liver.
- 2G. Mention the location of rods and cones. State one function of each.
- 2H. Classify hypoxia.
- 2I. Define GFR and give its normal value.
- 2J. Draw a labeled diagram of a sarcomere.

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

Reg. No.	

FIRST YEAR BPT/BOT/B.Sc. MLT/ B.Sc. NMT/B.Sc. RT/B.Sc. MIT/B.Sc. CVT/ B.Sc. RRT & DT/M.Sc. NMT

DEGREE EXAMINATION - JUNE 2014

SUBJECT: BIOCHEMISTRY

Saturday, June 07, 2014

Time: 10.00-11.30 Hours

Max. Marks: 40

- Answer ALL the questions.
- Ø Draw diagrams and flow charts wherever appropriate.
- 1. Explain gluconeogenesis under the following headings:
- 1A. Site and subcellular site
- 1B. Reactions of synthesis of glucose from lactate

(1+7=8 marks)

2. Classify enzymes giving one example for each class.

(6 marks)

- 3. Write short notes on the following:
- 3A. Structure of starch
- 3B. Reactions of β-oxidation of fatty acyl CoA
- 3C. Four differences between DNA and RNA
- 3D. Classification and functions of lipoproteins

 $(4 \text{ marks} \times 4 = 16 \text{ marks})$

- 4. Answer the following:
- 4A. Define and write the normal values of BMR
- 4B. Name two essential fatty acids and write their functions
- 4C. Write the normal serum levels of total protein, creatinine, calcium and urea
- 4D. List four differences between kwashiorkor and Marasmus
- 4E. Mention the fate of the end product of glycogenolysis in liver and muscle

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

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FIRST YEAR B.O.T. DEGREE EXAMINATION - JUNE 2014

SUBJECT: GENERAL PSYCHOLOGY (2011 BATCH)

Tuesday, June 10, 2014

Time	e: 10:	00-13:00 Hrs.			Max. Marks: 80
UCHA TOTAL					
1.	Cho	ose the single best answer	r.		
1A.	You	r ability to use the mouse of	n comj	puter is an example of what type of mer	nory?
	i)	Episodic	ii)	Explicit	
	iii)	Priming	iv)	Procedural	
1B.	Shaj	ping is a technique that mal	kes use	of the principle of:	
	i)	Operant Conditioning	ii)	Classical conditioning	
	iii)	Observational learning	iv)	Insightful learning	
1C.	Tacl	histoscope is an instrument	used to	o study:	
	i)	Motivation	ii)	Emotion	
	iii)	Attention	iv)	Memory	
1 D.	Forg	getting curve is associated	with:		
	i)	Spearman	ii)	Guilford	
	iii)	Ebbinghaus	iv)	Sperling	
IE.	Moi	ral arm of personality accor	ding to	Freud	
	i)	Id	ii)	Ego	
	iii)	Super Ego	iv)	Ego Ideal	
				(1 ma	$rk \times 5 = 5 \text{ marks}$
	à	in the state of th	T . C (1	e Barrian	
2.		ite definitions on any FIV	E of th	e following:	
2A.		ctional Fixedness			
2B.	Atti	tude			
20	Sha	nine			

- 3. Write short notes on any SIX of the following:
- 3A. Any two theories of Intelligence

2E. Structure of Personality by Freud

3B. Types of Illusion

2D. Monocular Cue

2G. Abnormal Psychology

2F. Emotion

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

- 3C. Maslow's hierarchy of needs
- 3D. Coping Mechanisms
- 3E. Principles of Classical Conditioning
- 3F. Type Approach to Personality
- 3G. Any three theories of forgetting
- 3H. Experimental Method
- 31. James-Lange theory of emotion

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

- 4. Write essay on any TWO of the following:
- 4A. Define Learning and explain Thorndike's trial and error learning.
- 4B. Give an account on the Psychological theories of Motivation.
- 4C. Explain any three approaches of Personality.

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

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FIRST YEAR B.O.T. DEGREE EXAMINATION - JUNE 2014

SUBJECT: OCCUPATIONAL THERAPY FUNDAMENTALS (2011 BATCH)

Thursday, June 12, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- & Answer ALL the questions.
- & Long questions:
- 1. Explain the Occupational Performance Model.
- 2. Describe five important assumptions about occupational therapy performance as embedded in occupational therapy.

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

- 3. Short notes:
- 3A. Write on four important unique aspect of occupational therapy.
- 3B. Expand 'AIOTA' and list out five important activities of the same.
- 3C. Write on 'Diversion' as a purpose of occupational therapy.
- 3D. Write on five common areas that an occupational therapist is likely to work.

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

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FIRST YEAR B.O.T. DEGREE EXAMINATION - JUNE 2014

SUBJECT: BASICS OF OCCUPATIONAL THERAPY ASSESSMENT (2011 BATCH)

Saturday, June 14, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer ALL the questions.

1. Define muscle strength. Write a note on general principles and procedures of manual muscle testing.

(2+8 = 10 marks)

2. Explain the purpose of evaluating sensation and the role of sensation in occupational functioning.

(5+5 = 10 marks)

3. Short notes:

- 3A. Techniques of palpation
- 3B. Methods of joint measurement
- 3C. Formal methods of evaluation
- 3D. Benefits of occupational performance diagnosis

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

