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Reg. No.				

## MANIPAL UNIVERSITY

## FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION - AUGUST 2015

SUBJECT: ANATOMY (NR/2011 BATCH)

Wednesday, August 26, 2015

Time: 10.00-13.00 Hours.

Max. Marks: 80

- Answer the following questions.
- Draw diagrams wherever necessary.
- 1. Explain the brachial plexus under the following headings:
- 1A. Formation, trunks, cords and branches
- 1B. Applied anatomy

(16+4 = 20 marks)

- 2. Describe the femoral triangle under:
- 2A. Boundaries and contents
- 2B. Add a note on femoral sheath, femoral canal and femoral ring
- 2C. Applied anatomy

(10+7+3 = 20 marks)

- 3. Write briefly on:
- 3A. Floor of fourth ventricle
- 3B. Corpus callosum
- 3C. Circle of Willis
- 3D. Cross section of medulla at the level of pyramidal decussation
- 3E. Cerebrum

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

- 4 Write short notes on:
- 4A. Periosteum
- 4B. Clavipectoral fascia
- 4C. Pericardium
- 4D. Difference between small and large intestine
- 4E. Microscopic structure of cardiac muscle

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

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# 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 / DEGREE EXAMINATION – AUGUST 2015

SUBJECT: PHYSIOLOGY

Thursday, August 27, 2015

Time: 10.00 - 11.30 Hours.

Max. Marks: 40

## Answer ALL questions. Draw diagrams and flow chart wherever appropriate.

#### 1. Essay Questions:

- 1A. Explain the intrinsic mechanism of blood clotting.
- 1B. Draw and label a normal electrocardiogram from limb lead II and mention the causes for each wave.
- 1C. Mention any three functions of cerebellum. List any two features of cerebellar lesion.
- 1D. List four actions of thyroid hormones. Name the condition that results due to deficiency of thyroid hormones in adults.

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

#### 2. Short Answer Questions:

- 2A. Describe rigor mortis
- 2B. Describe primary active transport mechanism with an example
- 2C. List two features of erythroblastosis fetalis
- 2D. What are the two different forms of carbon dioxide transport in blood?
- 2E. Define cardiac output. Mention its normal value
- 2F. Name the components of vestibular apparatus
- 2G. List any two functions of liver
- 2H. Mention any two actions of testosterone
- 21. Define glomerular filtration rate. Give its normal value
- 2J. Mention two properties of sensory receptors

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



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## FIRST YEAR BPT / BOT / B.Sc. MLT / B.Sc. RT / B.Sc. MIT / B.Sc. CVT / B.Sc. RRT & DT DEGREE EXAMINATION – AUGUST 2015

SUBJECT: BIOCHEMISTRY

Friday, August 28, 2015

Time: 10.00 - 11.30 Hours

Max. Marks: 40

- Answer ALL the questions.
- **E** Draw diagrams and flow charts wherever appropriate.
- 1. Explain the oxidation of acetyl CoA in the TCA cycle and add a note on its energetics.

(8 marks)

2. Give a detailed account of the process of emulsification and absorption of lipids in the intestine.

(6 marks)

- 3. Write short notes on the following:
- 3A. Classification of lipoproteins based on density and their functions
- 3B. Ketolysis and its significance
- 3C. Basal metabolic rate
- 3D. Differences between DNA and RNA

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

- 4. Write brief answers for the following:
- 4A. Give the Henderson- Hasselbalch equation of bicarbonate buffer system with normal values of the components.
- 4B. Give normal serum level of calcium and mention THREE hormones involved in its regulation.
- 4C. Define essential amino acids with THREE examples.
- 4D. Classify polysaccharides giving ONE example each.
- 4E. Describe the effect of temperature on enzyme activity with a suitable graph.

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

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#### FIRST YEAR B.O.T. DEGREE EXAMINATION - AUG/SEP 2015

SUBJECT: GENERAL PSYCHOLOGY (2011 BATCH - NR)

Saturday, August 29, 2015

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Max. Marks: 80

1.	Cho	oose the single best answer:			
1A.	Chil	ldhood Apperception test is a test of	of:		
	i)	Personality	ii)	Intelligence	
	iii)	Temperament	iv)	Memory	
1B.	The	span of short term memory:			ü.
	i)	Five plus or minus two	ii)	Three plus or minus two	)
	iii)	Seven plus or minus two	iv)	Nine plus or minus two	
1C.	The	recording of the brain waves using	g elect	rodes place in the brain is	S:
	i)	ECG	ii)	PET	
	iii)	EEG	iv)	GABA	
1D.	The	ory of interference is associated wi	th:		
	i)	Motivation	ii)	Memory	
	iii)	Emotion	iv)	Behavior modification	
1E.	Shap	oing is a technique that makes use	of prin	nciple of:	
	i)	Classical Conditioning	ii)	Social learning	
	iii)	Operant Conditioning	iv)	Insightful learning	
					$(1 \text{ mark} \times 5 = 5 \text{ marks})$

#### 2. Write definitions on any FIVE of the following:

- 2A. Working memory
- 2B. Perceptual constancy
- 2C. Secondary traits
- 2D. Intelligence
- 2E. Aptitude
- 2F. Introspection
- 2G. Opponent process theory of emotion

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

#### 3. Write short notes on any SIX of the following:

- 3A. Any two personality assessment
- 3B. Factors influencing attention

- 3C. Experimental method in psychology
- 3D. Drive reduction theory
- 3E. Types of conflict
- 3F. Compare and contrast Schachter-Singer and Cannon Bard theories of emotion
- 3G. Influence of heredity and environment on intelligence
- 3H. Principles of Perceptual Organization
- 3I. Laws of learning

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

- 4. Write essay on any TWO of the following:
- 4A. What is Reinforcement? Write an account on schedules of reinforcement.
- 4B. What is Problem solving? What are the different types of problems solving strategies?
- 4C. Define Psychology. Write an account on different branches of psychology.

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



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## FIRST YEAR B.O.T. DEGREE EXAMINATION - AUG/SEP 2015

SUBJECT: OCCUPATIONAL THERAPY FUNDAMENTALS (2011 BATCH- NR)

Monday, August 31, 2015

Time: 10:00 - 11:30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Describe five assumptions about human beings.

(10 marks)

2. Discuss the outcomes of occupational therapy service programs and intervention.

(10 marks)

- 3. Short notes:
- 3A. Define 'occupational therapy'.
- 3B. 'Equality' as an important personal value of an occupational therapist.
- 3C. Write contributions by George Edward Barton.
- 3D. Therapeutic use of occupations and activities described in the occupational therapy practise framework.

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



## FIRST YEAR B.O.T. DEGREE EXAMINATION - AUG/SEP 2015

SUBJECT: BASICS OF OCCUPATIONAL THERAPY ASSESSMENT (2011 BATCH)

Tuesday, September 01, 2015

Time: 10:00 - 11:30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Define strength and describe the general procedures of manual muscle testing.

(2+8 = 10 marks)

2. What are the factors that influence the range of motion?

(10 marks)

- 3. Short Notes:
- 3A. Importance of touch sensation in self-care
- 3B. Describe essential elements for a successful interview
- 3C. Effects of palpation on the patient
- 3D. Define any five occupational therapy diagnosis in cognitive substrates

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