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### FIRST YEAR B.P.T./B.O.T. DEGREE EXAMINATION - MAY/JUNE 2013

# SUBJECT: ANATOMY (COMMON FOR BOTH OLD & NEW REGULATIONS)

Tuesday, May 28, 2013

Time: 10.00-13.00 Hours.

Max. Marks: 80

- 1. Describe the hip joint under the following headings:
- 1A. Type and subtype
- 1B. Bones taking part
- 1C. Ligaments
- 1D. Movements and muscles producing each of those movements

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

- 2. Describe the radial nerve under the following headings:
- 2A. Origin and course
- 2B. Branches and distribution
- 2C. Applied anatomy

(8+10+2 = 20 marks)

- 3. Write short notes on:
- 3A. Spinothalamic tracts
- 3B. Cerebellum
- 3C. Internal capsule
- 3D. Anterior cerebral artery
- 3E. Internal structure of medulla oblongata

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

- 4. Write short notes on:
- 4A. Thyroid gland
- 4B. Ovary
- 4C. Spermatic cord
- 4D. Stomach
- 4E. Nasal septum

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



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### FIRST YEAR BOT DEGREE EXAMINATION - MAY/JUNE 2013

SUBJECT: PHYSIOLOGY

Thursday, May 30, 2013

Time: 10.00-11.30 Hours.

Max. Marks: 40

#### ✓ Answer ALL questions. Draw diagrams wherever necessary.

#### 1. Essay questions:

- 1A. Classify leucocytes. Mention one function of each.
- 1B. Draw a neat labeled diagram of the visual pathway.
- 1C. Mention the site of formation and circulation of cerebrospinal fluid. List any two functions of cerebrospinal fluid.
- 1D. List five actions of cortisol.

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

#### 2. Write short answers for the following:

- 2A. Mention any two transport mechanisms across the cell membrane.
- 2B. Mention any two differences between the first and second heart sounds.
- 2C. Enumerate any two differences between skeletal and smooth muscles.
- 2D. Mention any two anticoagulants.
- 2E. Define stroke volume. Give its normal value.
- 2F. Mention the different forms in which oxygen is transported in the blood.
- 2G. List any two functions of liver.
- 2H. Define alveolar ventilation. Mention its normal value.
- 2I. List any two functions of placenta.
- 2J. Define renal threshold. Mention the renal threshold for glucose.

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



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## FIRST YEAR B.O.T. DEGREE EXAMINATION – MAY/JUNE 2013 SUBJECT: BIOCHEMISTRY

(2011 BATCH) Saturday, June 01, 2013

Time: 10.00-11.30 Hours Max. Marks: 40

1. Write in detail the reactions of urea cycle. Add a note on two disorders of urea cycle.

(8 marks)

2. Explain the metabolism of ketone bodies.

(6 marks)

- 3. Write short notes on the following:
- 3A. Structure of DNA
- 3B. Secondary structure of proteins
- 3C. Digestion of starch
- 3D. Reactions of  $\beta$  oxidation of palmitic acid in mitochondria

 $(4\times4 = 16 \text{ marks})$ 

- 4. Answer the following:
- 4A. Give two functions of dietary fibers.
- 4B. Name two important products each derived from tyrosine and glycine.
- 4C. List four functions of calcium.
- 4D. Write the normal serum levels of total protein, uric acid, creatinine and total cholesterol.
- 4E. What are proenzymes? Give two examples.

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

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#### FIRST YEAR B.O.T. DEGREE EXAMINATION - MAY/JUNE 2013

# SUBJECT: GENERAL PSYCHOLOGY (NEW REGULATION)

Tuesday, June 04, 2013

1.	Choose the single best answ	r.
1A.	The branch of psychology th	t studies the activities of an individual in relation to his fellow
	men	
	a) Clinical	b) Social
	c) Developmental	d) Experimental

- 1B. Which of the following occurs when one object seems to block another object?
  - a) Convergenceb) Linear Perspectivec) Interpositiond) Texture gradient
- 1C. When a conditioned response briefly reappears after it has been extinguished, this is called:
  - a) Spontaneous recovery b) Higher-order conditioning
  - c) Extinction d) Stimulus Generalization
- 1D. The best method for encoding long-term memory is probably to use:
  - a) Maintenance rehearsal b) Role rehearsal
  - e) Elaborative rehearsal d) Sleep learning
- IE. The striving for fulfillment of one's potential is called:
  - a) Self-concept b) Self-Actualization
  - c) Self-Efficacy d) Ideal self

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

Max. Marks: 80

- 2. Write definitions on any FIVE of the following:
- 2A. Divergent Thinking

Time: 10:00-13:00 Hrs.

- 2B. Punishment
- 2C. Heuristics
- 2D. Shape Constancy
- 2E. Parapsychology
- 2F. Decay theory of forgetting
- 2G. Two factor theory of Intelligence

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

- 3. Write short notes on any SIX of the following:
- 3A. Types of Problem Solving
- 3B. Types of Illusion
- 3C. Any three theories of motivation
- 3D. Attitude
- 3E. Observational learning
- 3F. Humanistic approach to personality
- 3G. Information processing model of memory
- 3H. Applied Psychology
- 3I. Projective tests

 $(5\times6=30 \text{ marks})$ 

- 4. Write essay on any TWO of the following:
- 4A. Define attention and its types. What are the factors that influence attention?
- 4B. Describe Monocular and Binocular cues in Perception.
- 4C. Explain the experimental and observational methods used in Psychology.

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



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#### FIRST YEAR B.O.T. DEGREE EXAMINATION - MAY/JUNE 2013

# SUBJECT: BASICS OF OCCUPATIONAL THERAPY ASSESSMENT (NEW REGULATION)

Saturday, June 08, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer all the questions.
- 1. Define evaluation and assessment. Explain the process of assessment.

(2+2+6 = 10 marks)

2. What are the principles and procedures of manual muscle testing?

(5+5 = 10 marks)

- 3. Write short notes on:
- 3A. Principles of sensory evaluation
- 3B. Methods of joint measurement
- 3C. Techniques of palpation
- 3D. Benefits of occupational performance diagnosis

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

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### FIRST YEAR B.O.T. DEGREE EXAMINATION - MAY/JUNE 2013

# SUBJECT: OCCUPATIONAL THERAPY FUNDAMENTALS (NEW REGULATION)

Thursday, June 06, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer all the questions.
- 1. Long questions:
- 1A. Describe five principles of play as postulated by Takata.

(10 marks)

1B. Briefly describe the process of occupational therapy as explained by Occupational Therapy Practise Framework.

(10 marks)

- 2. Write short notes on:
- 2A. Write a short note on contributions by William Rush Dunton.
- 2B. Write the significance of the Occupational Therapy text book by Helen S. Willard and Clare S. Spackman.
- 2C. Short note on 'Altruism' as an important personal value of an occupational therapist.
- 2D. Describe any five instrumental activities of daily living of the Occupational Therapy Practise Framework.

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