

**MANIPAL UNIVERSITY****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

(5×5 = 25 marks)
  
4. Write short notes on:
  - 4A. Thyroid gland
  - 4B. Ovary
  - 4C. Spermatic cord
  - 4D. Stomach
  - 4E. Nasal septum

(3×5 = 15 marks)



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## MANIPAL UNIVERSITY

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.

(5×4 = 20 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.

(2×10 = 20 marks)



## MANIPAL UNIVERSITY

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  
(4×4 = 16 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.  
(2×5 = 10 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

(5×6 = 30 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.

(15×2 = 30 marks)



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**MANIPAL UNIVERSITY**

**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  
(5×4 = 20 marks)





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## MANIPAL UNIVERSITY

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.

(5×4 = 20 marks)

