

BOT

Reg. No.

MANIPAL UNIVERSITY

FIRST YEAR B.P.T. & B.O.T./SECOND SEMESTER B.Sc. MIT DEGREE EXAMINATION – JUNE 2016

SUBJECT: ANATOMY
(NR/2015 & 2011 BATCH)

Thursday, June 02, 2016

Time: 10.00-13.00 Hours.

Max. Marks: 80

- ✍ Answer the following questions.
- ✍ Draw diagrams wherever necessary.

1. **Describe shoulder joint under the following:**

- 1A. Type and bones articulating
- 1B. Ligaments
- 1C. Movements and muscles producing it
- 1D. Applied aspects

(3+8+6+3 = 20 marks)

2. **Describe femoral nerve under the following:**

- 2A. Origin and root value
- 2B. Course and relations
- 2C. Branches and distribution
- 2D. Applied anatomy

(3+6+8+3 = 20 marks)

3. **Write briefly on:**

- 3A. White fibres of the cerebrum
- 3B. External features of spinal cord
- 3C. Parts and fissures of cerebellum
- 3D. Thalamus
- 3E. Cerebrospinal fluid

(5 marks × 5 = 25 marks)

4. **Write short notes on:**

- 4A. Arch of aorta
- 4B. Microscopic anatomy of hyaline cartilage
- 4C. Pleural recess
- 4D. Quadriceps femoris
- 4E. Interior of the larynx

(3 marks × 5 = 15 marks)



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**FIRST YEAR BOT/B.Sc. MRT/B.Sc. MLT/B.Sc. CVT/B.Sc. RT/B.Sc. RRT & DT/M.Sc. NMT
DEGREE EXAMINATION – JUNE 2016**

SUBJECT: PHYSIOLOGY

(2015 BATCH (BOT 106)/2011 SCHEME/ /2011 SCHEME (PAPER II)/2015 & 2010 SCHEME/BDT 102/NR (PAPER I)

Saturday, June 04, 2016

Time: 10.00-11.30 Hours.

Max. Marks: 40

✍ **Answer ALL questions.**

✍ **Draw diagrams and flow charts wherever appropriate.**

1. Essay Questions:

- 1A. Mention three functions of middle ear. Describe any one.
- 1B. Mention the normal heart rate. Give its normal value. Mention two conditions each for tachycardia and bradycardia.
- 1C. List any four hormones secreted by anterior pituitary and explain three actions of any one hormone.
- 1D. Draw a labelled diagram of dorsal column tract and list the sensations carried by it.
(5 marks × 4 = 20 marks)

2. Short Answer Questions:

- 2A. Mention two functions of plasma proteins.
- 2B. Define and give the normal value of vital capacity.
- 2C. Give two differences between skeletal muscle and smooth muscle.
- 2D. Draw a labeled diagram of a nerve action potential.
- 2E. List two functions of liver.
- 2F. Define GFR. Give its normal value.
- 2G. List any two functions of hypothalamus
- 2H. Mention two actions of testosterone.
- 2I. List two functions of skin.
- 2J. Mention two hazards of mismatched blood transfusion.

(2 marks × 10 = 20 marks)



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**FIRST YEAR BPT/BOT/B.Sc. MLT/B.Sc. RT/B.Sc. CVT / B.Sc. RRT & DT/M.Sc. NMT
DEGREE EXAMINATION – JUNE 2016**

SUBJECT: BIOCHEMISTRY

(NR/2015 & 2011 BATCH/ /2015 & 2010 SCHEME/2011 SCHEME/BDT 103/NR

Tuesday, June 07, 2016

Time: 10.00-11.30 Hours

Max. Marks: 40

✍ **Answer ALL the questions.**

1. Describe the reactions of gluconeogenesis from lactate. (8 marks)
2. Classify enzymes with one example each. (6 marks)
3. **Write short notes on the following:**
 - 3A. Dietary fibers
 - 3B. Reactions of beta oxidation
 - 3C. Basal metabolic rate
 - 3D. Structure of DNA(4 marks × 4 = 16 marks)
4. **Answer the following:**
 - 4A. Define transamination reaction with an example.
 - 4B. Name two physiologically important products derived from tyrosine and tryptophan each.
 - 4C. Name the vitamin deficient in scurvy, rickets, beriberi and pellagra.
 - 4D. Write the normal serum levels of cholesterol and uric acid.
 - 4E. Define a buffer and give two examples.(2 marks × 5 = 10 marks)



MANIPAL UNIVERSITY
FIRST YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016
SUBJECT: GENERAL PSYCHOLOGY
(2011 BATCH)

Thursday, June 09, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

1. Choose the single best answer.

1A. Theory of emotion stating, we see a bear, we run, we feel afraid is

- a) James Lange theory b) Schachter singer theory
c) Cannon Bard theory d) Opponent process theory

1B. Misinterpreting the sensory information is called

- a) Hallucinations b) Delusion
c) Illusions d) Confusion

1C. Thematic Apperception Test (TAT) is a

- a) Objective measure of IQ & creativity
b) Objective personality test
c) Projective measure of IQ and creativity
d) Projective personality test

1D. Responses that produce a satisfying effect in a particular situation become more likely to occur again in that situation, and responses that produce a discomforting effect become less likely to occur again in that situation is called

- a) Law of disuse b) Law of readiness
c) Law of use d) Law of effect

1E. The method to study psychology, which can help researcher establish cause effect relationship is

- a) Observational method b) Survey method
c) Experimental method d) Clinical method

(1 mark × 5 = 5 marks)

2. Write definitions on any FIVE of the following:

2A. Motivated forgetting

2B. Introversion

2C. Mental set

2D. Regression

2E. Inductive reasoning

2F. Functional fixedness

2G. Token economy

(3 marks × 5 = 15 marks)

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

- 3A. Defense mechanism
- 3B. Operant conditioning
- 3C. Interference in memory
- 3D. Types of conflict
- 3E. Cannon Bard theory of emotion
- 3F. Self -Actualization
- 3G. Influence of heredity and environment on intelligence
- 3H. Roger's theory of personality
- 3I. Types of thinking

(5 marks × 6 = 30 marks)

4. **Write essay on any TWO of the following:**

- 4A. Discuss observational and experimental research methods in psychology.
- 4B. Discuss binocular and monocular cues of depth perception.
- 4C. Define Attitude. Discuss measurement of attitude.

(15 marks × 2 = 30 marks)



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MANIPAL UNIVERSITY

FIRST YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016

SUBJECT: BASICS OF OCCUPATIONAL THERAPY ASSESSMENT (BOT 102)
(2015 & 2011 BATCH)

Saturday, June 11, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer ALL the questions.

1. What are the principles and procedures of joint range of motion measurement?
(10 marks)
2. Explain various methods of evaluation.
(10 marks)
3. **Write short notes on:**
 - 3A. Purposes of evaluating manual muscle strength
 - 3B. Draw a neat labelled diagram of upper extremity dermatomes
 - 3C. Need and components of family history taking in OT assessment
 - 3D. Techniques of palpation(5 marks × 4 = 20 marks)



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MANIPAL UNIVERSITY

FIRST YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016

SUBJECT: BOT 101 - INTRODUCTION TO OCCUPATIONAL THERAPY/
OCCUPATIONAL THERAPY FUNDAMENTALS
(2015/2011 BATCH)

Monday, June 13, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer ALL the questions.

1. Describe the philosophical basis of 'occupation'.
(10 marks)
2. Describe five assumptions about occupational performance.
(10 marks)
3. **Write short notes on:**
 - 3A. Expand 'AIOTA' and enumerate some important activities of the same.
 - 3B. 'Altruism' as an important personal value of an occupational therapist.
 - 3C. Define 'occupational therapy'.
 - 3D. List out ten different facilities where an occupational therapist can work
(5 marks × 4 = 20 marks)

