

MANIPAL UNIVERSITY

**SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T./ B.Sc. R.R.T. & D.T/
FOURTH SEMESTER B. PFT DEGREE EXAMINATION – JUNE 2017****SUBJECT: PATHOLOGY**

(2010 REGULATION/2011 & 2015 SCHEME/2010 & 2015 SCHEME/2011 & 2015 SCHEME/BDT 201/2015 & 2014 SCHEME)

Friday, June 02, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams wherever necessary.**

1. Define necrosis. Mention and explain four morphologic types of necrosis. Give one example for each.

(2+4+2 = 8 marks)

2. Define neoplasia. List five differences between benign and malignant tumors.

(2+5 = 7 marks)

3. **Write short notes on:**

3A. Etiology of atherosclerosis

3B. Peripheral blood findings of iron deficiency anaemia

3C. Clinical features and microscopy of lepromatous leprosy

3D. Complications of diabetes mellitus

3E. Definition, etiology and clinical features of chronic bronchitis

(5 marks × 5 = 25 marks)



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SECOND YEAR BPT/**BOT**/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT/
FOURTH SEMESTER B. PFT DEGREE EXAMINATION – JUNE 2017

SUBJECT: MICROBIOLOGY

(COMMON FOR 2010 REGULATION/2011 & 2015 SCHEME/2010 & 2015 SCHEME/2011 & 2015
SCHEME/BDT 202/2015 & 2014 SCHEME)

Monday, June 05, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Draw Diagrams wherever appropriate.**

1. Define and classify hypersensitivity reactions. Discuss the mechanism of IgE mediated hypersensitivity reaction.
(1+2+5 = 8 marks)
2. Discuss the pathogenesis and laboratory diagnosis of cholera.
(3+4 = 7 marks)
3. **Write short notes on:**
 - 3A. Bacterial growth curve
 - 3B. Prophylaxis of poliomyelitis
 - 3C. Autoclave
 - 3D. Laboratory diagnosis of HIV infection
 - 3E. Gram negative bacterial cell wall(5 marks × 5 = 25 marks)



MANIPAL UNIVERSITY**SECOND YEAR B.P.T./B.O.T./B.Sc. M.I.T./B.Sc. C.V.T./B.Sc. R.T./B.Sc. R.R.T. & D.T.
DEGREE EXAMINATION – JUNE 2017****SUBJECT: PHARMACOLOGY**

(COMMON FOR 2010 REGULATION/2011 & 2015 SCHEME/2012 SCHEME/2011 & 2015 SCHEME/2015 SCHEME /BDT 203)

Wednesday, June 07, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer the following questions:

1. Explain the following terms with an example:

- 1A. Idiosyncrasy
- 1B. Synergism
- 1C. Chemoprophylaxis
- 1D. Local anesthetics

(2 marks × 4 = 8 marks)

2. Mention one advantage and one disadvantage of the following routes of drug administration:

- 2A. Transdermal
- 2B. Subcutaneous

(1 mark × 2 = 2 marks)

3A. Explain the mechanism of action of chloroquine.

3B. List two classes of antiasthmatic drugs with an example for each.

3C. List two cholinergic receptors and mention two adverse effects of atropine.

(2+2+2 = 6 marks)

4. Mention two examples and two uses of the following group of drugs:

- 4A. Proton pump inhibitors
- 4B. NSAIDs
- 4C. ACE inhibitors

(2 marks × 3 = 6 marks)

5. List two drugs used in the following conditions:

- 5A. HIV infection
- 5B. Vomiting
- 5C. Parkinsonism
- 5D. Tuberculosis
- 5E. Epilepsy

(1 mark × 5 = 5 marks)

- 6A. List two anticoagulants and explain the mechanism of action of any one.
- 6B. List two beta blockers and mention their two therapeutic uses and two adverse effects.
- 6C. Define first order kinetics.
- 6D. List two aminoglycosides and mention their four common properties.
- 6E. List two glucocorticoids and mention their two uses and two adverse effects.

(3+3+1+3+3 = 13 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2017
SUBJECT: DEVELOPMENT ACROSS THE LIFE SPAN
(2011 SCHEME)

Friday, June 09, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

✍ **Long questions:**

1. Describe the psychological changes seen in adulthood. (10 marks)

2. Explain in detail the developmental changes seen in early childhood. (10 marks)

3. **Short notes:**

- 3A. Adolescent egocentrism
- 3B. Levinson's young adult transition
- 3C. Disengagement theory
- 3D. Environmental influence on prenatal development

(5 marks × 4 = 20 marks)



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

- 3A. Types of thinking
- 3B. Psychological theories of motivation
- 3C. Social learning theory
- 3D. Projective test of personality
- 3E. Binocular cues of depth perception
- 3F. Trial and error learning
- 3G. Types of forgetting
- 3H. Drive reduction theory of motivation
- 3I. Allport's theory of personality

(5 marks × 6 = 30 marks)

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

- 4A. What is attention? What are the factors influencing attention?
- 4B. Explain the Laws of learning.
- 4C. Write a brief account of methods used in psychology

(15 marks × 2 = 30 marks)



MANIPAL UNIVERSITY**SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2017****SUBJECT: BIOMECHANICS AND KINESIOLOGY
(2011 & 2015 SCHEME)**

Monday, June 12, 2017

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- ✍ **Answer ALL the questions.**
✍ **Draw diagram wherever necessary.**

✍ **Long questions:**

1. Explain the events in stance and swing phases of gait cycle. Highlight any four gait deviations.

(8+8+4 = 20 marks)

2. Describe glenohumeral joint structures and osteokinematics, arthrokinematics of the same. Explain scapulohumeral rhythm.

(7+4+4+5 = 20 marks)

3. **Write short notes on:**

- 3A. Describe two elastic components of the muscle and mention any two valuables of the same.

(6+4 = 10 marks)

- 3B. Describe parallel force systems with an example.

(6+4 = 10 marks)

- 3C. Describe finger joints with labelled diagram.

(6+4 = 10 marks)

- 3D. Describe the muscles moving the foot.

(10 marks)



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SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: THERAPEUTIC ACTIVITIES AND EXERCISES
(2011 SCHEME)

Wednesday, June 14, 2017

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

✍ Long questions:

1. What is activity analysis? Describe the three levels of activity analysis with suitable examples.

(5+15 = 20 marks)

2. Explain the assumptions and focus of Biomechanical frame of reference. Describe the strategies to improve structural stability and tissue integrity.

(5+5+5+5 = 20 marks)

3. Short notes:

3A. Explain the process of occupational adaptation with suitable illustration.

(7+3 = 10 marks)

3B. 'Occupation-as- ends' and 'occupation-as- means'.

(5+5 = 10 marks)

3C. Principles of client-centred practice.

(10 marks)

3D. Types of muscle contractions with examples.

(10 marks)



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SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: FOUNDATIONAL CONCEPT AND SKILLS IN OCCUPATIONAL THERAPY (BOT 202)
(2015 SCHEME)

Wednesday, June 14, 2017

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

✍ **Long questions:**

1. Explain the assumptions, intervention guidelines and limitations of Rehabilitation frame of reference.

(5+10+5 = 20 marks)

2. Describe developmental changes seen during the prenatal period and in early childhood.

(10+10 = 20 marks)

3. **Short notes:**

3A. Types of muscle contraction with examples

(10 marks)

3B. Activity adaptation and its purpose

(5+5 = 10 marks)

3C. Psychosocial theories of aging

(10 marks)

3D. Structure of a frame of reference as given by Mosey

(10 marks)



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SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: OCCUPATIONAL PERFORMANCE: PERSONAL AND CONTEXTUAL FACTORS
(2011 & 2015 SCHEME)

Friday, June 16, 2017

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

1. Describe types of bladder dysfunction and management of the same. (8+12 = 20 marks)
2. Define extra-pyramidal disorder and explain any four signs of the same. (4+16 = 20 marks)
3. **Short notes:**
 - 3A. Explain top-down and bottom-up approach. (5+5 = 10 marks)
 - 3B. Describe levels of attention with examples. (10 marks)
 - 3C. Define and explain testing procedure of visual field. (2+8 = 10 marks)
 - 3D. Describe the characteristics of social network with examples. (10 marks)

