

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
DEGREE EXAMINATION – JUNE 2015SUBJECT: PATHOLOGY
(2010 SCHEME/2011 BATCH/2010 SCHEME/2011 SCHEME)

Monday, June 15, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

☞ Answer ALL questions.

☞ Illustrate your answers with diagrams wherever necessary.

1. Classify anemia. What are the biochemical investigations and peripheral blood smear picture in iron deficiency anemia.

(3+3+2 = 8 marks)

2. Mention the causative organism of Tuberculosis. Define primary and secondary Tuberculosis. Describe morphology of secondary pulmonary tuberculosis.

(1+2+4 = 7 marks)

3. Write short notes on:

3A. Gangrene

3B. Phagocytosis

3C. Osteoporosis

3D. Types of embolism

3E. Factors influencing fracture healing and its complications

(5 marks × 5 = 25 marks)



MANIPAL UNIVERSITY

SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT
DEGREE EXAMINATION – JUNE 2015SUBJECT: MICROBIOLOGY
(COMMON FOR 2010 SCHEME/2011 BATCH/2010 SCHEME/2011 SCHEME)

Wednesday, June 17, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

☞ Answer all questions. Illustrate your answers with neat labeled diagram wherever necessary.

1. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Tetanus.
(3+2+3 = 8 marks)
2. Define and classify immunity. Describe in detail about acquired immunity.
(1+2+4 = 7 marks)
3. Write short notes on:
 - 3A. Bacterial growth curve
 - 3B. Laboratory diagnosis of fungal infections
 - 3C. Bacterial endocarditis
 - 3D. Laboratory diagnosis of Hepatitis B virus infection
 - 3E. Hot air oven(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.R.T. & D.T.
DEGREE EXAMINATION – JUNE 2015****SUBJECT: PHARMACOLOGY**
(COMMON FOR 2010 REGULATION/2011 BATCH/2012 SCHEME/2011 SCHEME)

Friday, June 19, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer the following questions:**1. Define the following terms:**

- 1A. Biotransformation
- 1B. First pass metabolism
- 1C. Chemoprophylaxis

(2 marks × 3 = 6 marks)

- 2A. List three advantages and three disadvantages of oral route of drug administration.
- 2B. Describe the effects of adrenaline on: heart and blood vessels.
- 2C. List two bronchodilators used in asthma and explain the mechanism of action of any one of them.
- 2D. Describe three factors modifying drug action.

(3+3+3+3 = 12 marks)

- 3A. Name two antiplatelet drugs and mention two therapeutic uses of them.
- 3B. Write basis for combining levodopa and carbidopa in Parkinsonism.
- 3C. Describe mechanism of action of cotrimoxazole and mention its one use.
- 3D. List two therapeutic uses and two adverse effects of corticosteroids.

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

4. Describe the following terms with one example:

- 4A. Brand name of drug
- 4B. Synergism
- 4C. Local anesthetics

(2 marks × 3 = 6 marks)

5. Mention two drugs belonging to the following groups:

- 5A. Sedatives
- 5B. ACE Inhibitors
- 5C. Hypolipidemics

(1 mark × 3 = 3 marks)

6. **List two drugs used in the following conditions:**

6A. Cough

6B. Type 2 Diabetes mellitus

6C. Peptic ulcer

6D. Angina

6E. HIV infection

(1 mark \times 5 = 5 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2015
SUBJECT: DEVELOPMENT ACROSS THE LIFE SPAN
(2011 BATCH)

Monday, June 22, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

✍ **Long questions:**

1. Describe cognitive and social development of adolescence.

(5+5 = 10 marks)

2. Explain three major approaches of cognitive development.

(10 marks)

3. **Write short notes on:**

3A. Disengagement theory of aging

3B. Social changes observed in young adulthood

3C. Auditory play and its benefits with examples

3D. Age related changes in muscular system of older adults

(5 marks × 4 = 20 marks)



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

Wednesday, June 24, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

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

✍ **Long Questions:**

1. Explain three types of connective tissues and its functions.
(8+6+6 = 20 marks)

2. Describe the structures of lumbar region and its movements with emphasis on lumbosacral rhythm.
(10+5+5 = 20 marks)

3. **Write short notes on:**
 - 3A. Explain two types of knee joint stabilization
(5+5 = 10 marks)
 - 3B. Define force system and its various types
(2+8 = 10 marks)
 - 3C. Describe shoulder girdle and its movements
(5+5 = 10 marks)
 - 3D. Describe the swing phase of gait cycle
(10 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2015
SUBJECT: THERAPEUTIC ACTIVITIES AND EXERCISES
(2011 BATCH)

Friday, June 26, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Answer ALL questions.

✍ Long questions:

1. Explain in detail the assumptions and function-dysfunction of the Occupational Adaptation Model. Describe the Occupational Adaptation process.

(8+12 = 20 marks)

2. Explain in detail the different types of stretch, with suitable examples as well as application to activity.

(20 marks)

3. **Write short notes on:**

3A. Occupation based activity analysis

3B. Principles of teaching and learning activities in Occupational Therapy

3C. The variation of purposeful activities on several continua as described by Mosey

3D. Therapeutic strategies for intervention based on Occupational Behavioral Approach

(10 marks × 4 = 40 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2015

SUBJECT: OCCUPATIONAL PERFORMANCE: PERSONAL AND CONTEXTUAL FACTORS
(2011 BATCH)

Monday, June 29, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL questions.**

✍ **Long Answer Questions:**

1. Describe stages of caregiver adaptation. (20 marks)

2. Describe types of bowel dysfunction and management of the same. (8+12 = 20 marks)

3. **Write short notes on:**
 - 3A. Describe various sources to get cues related to personal factors. (10 marks)
 - 3B. Describe the testing procedure of tonic labyrinthine reflex and positive support reaction. (5+5 = 10 marks)
 - 3C. Describe dynamical systems theory of motor control. (10 marks)
 - 3D. Explain types of attention and its testing procedure. (4+6 = 10 marks)

