

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 2016****SUBJECT: PATHOLOGY**

(2010 REGULATION/2011 BATCH/2010 SCHEME/2011 SCHEME/BDT 201/CBS-PFT 204)

Wednesday, June 15, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

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

1. Define osteomyelitis. Mention the etiology and discuss the morphology of bone osteomyelitis.

(1+2+5 = 8 marks)

2. Define neoplasia. Give four differences between a benign and a malignant tumour.

(3+4 = 7 marks)

3. **Write short notes on:**

3A. Granuloma

3B. Metaplasia

3C. Types of embolism

3D. Morphology of lepromatous leprosy

3E. Etiology of gastric ulcer

(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 2016

SUBJECT: MICROBIOLOGY

(COMMON FOR 2010 REGULATION/2011 BATCH/2010 SCHEME/2011 SCHEME/BDT 202/PFT 206)

Friday, June 17, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

 **Draw Diagrams wherever appropriate.**

1. Classify immunity. Discuss the mechanism of innate immunity.
(2+5 = 7 marks)

2. Discuss the investigation of nosocomial infections. State the importance of MRSA in nosocomial infections.
(6+2 = 8 marks)

3. **Write short notes on:**
 - 3A. Laboratory diagnosis of tuberculosis
 - 3B. Pathogenesis of tetanus
 - 3C. Laboratory diagnosis of streptococcal skin infection
 - 3D. Laboratory diagnosis of urinary tract infections
 - 3E. Constituents and significance of cell mediated immunity(5 marks × 5 = 25 marks)



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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 2016

SUBJECT: PHARMACOLOGY
(COMMON FOR 2010 REGULATION/2011 BATCH/2012 SCHEME/2011 SCHEME/BDT 203)

Monday, June 20, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer the following questions:

- 1A. Mention two classes of anti-anginal drugs and explain the mechanism of action of any one of them.
- 1B. Enumerate two aminoglycosides and list their four therapeutic uses.
- 1C. List two first line anti-tubercular drugs and explain the mechanism of action of any one of them.
- 1D. List three advantages each of oral and intravenous routes of drug administration.

(3 marks × 4 = 12 marks)

2. Mention two examples of the following groups of drugs and mention two uses of any one of them.

- 2A. β -lactam antibiotics
- 2B. Selective β_2 -agonists
- 2C. Proton pump inhibitors
- 2D. Angiotensin converting enzyme inhibitors
- 2E. Statins

(2 marks × 5 = 10 marks)

- 3A. Explain the pharmacological basis for combining levodopa with carbidopa.
- 3B. List two second generation antihistaminics and mention their two advantages over first generation antihistaminics.
- 3C. Enumerate two oral iron preparations and list their two adverse effects.
- 3D. Mention one each of oral and parenteral anticoagulants and list two therapeutic uses of any one of them.
- 3E. List four differences between aspirin and paracetamol.

(2 marks × 5 = 10 marks)

4. List two drugs used in the following conditions:

- 4A. Malaria
- 4B. HIV
- 4C. Cancer
- 4D. Type II diabetes mellitus
- 4E. Epilepsy
- 4F. Rheumatoid arthritis
- 4G. Congestive heart failure
- 4H. Constipation

(1 mark × 8 = 8 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016
SUBJECT: DEVELOPMENT ACROSS THE LIFE SPAN
(2011 BATCH)

Wednesday, June 22, 2016

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

✍ **Long Questions:**

1. Describe various developmental tasks achieved in early childhood period.
(10 marks)

2. Describe sensory development in prenatal and neonatal period.
(4+6 = 10 marks)

3. **Short Notes:**

3A. Factors influencing career choice

3B. Describe fine motor play with examples

3C. Three parameters of development

3D. Sociological influences on aging

(5 marks × 4 = 20 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016
SUBJECT: BIOMECHANICS AND KINESIOLOGY
(2011 BATCH)

Friday, June 24, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL questions.**

✍ **Draw diagram wherever necessary.**

✍ **Long Questions:**

1. Describe any three factors influences joint range of motion. Highlight how physiological end feel affects joint range.
(15+5 = 20 marks)

2. Describe the structures of pelvic girdle with diagram and explain pelvic tilts.
(10+10 = 20 marks)

3. **Write short notes on:**
 - 3A. Describe cervical region and its movements
(4+6 = 10 marks)
 - 3B. Describe arches of hand
(10 marks)
 - 3C. Describe the components of stance phase in normal gait cycle
(10 marks)
 - 3D. Polygon method of composition of force
(10 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016
SUBJECT: THERAPEUTIC ACTIVITIES AND EXERCISES
(2011 BATCH)

Monday, June 27, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL questions.**

✍ **Long Questions:**

1. Explain activity analysis. Discuss the need for activity analysis. Differentiate between basic activity analysis and occupation based activity analysis.

(5+5+10 = 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. **Write short notes on:**

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

(7+3 = 10 marks)

3B. What is fatigue? Discuss the causes and signs of fatigue.

(2+3+5 = 10 marks)

3C. Definition and therapeutic use of purposeful activities.

(2+8 = 10 marks)

3D. Open system cycle of model of human occupation

(10 marks)



MANIPAL UNIVERSITY**SECOND YEAR B.O.T. DEGREE EXAMINATION – JUNE 2016****SUBJECT: OCCUPATIONAL PERFORMANCE: PERSONAL AND CONTEXTUAL FACTORS
(2011 BATCH)**

Wednesday, June 29, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Answer ALL questions.**✍ Long Answer Questions:**

1. Explain the influence of personal contexts to occupational therapy assessment and treatment.
(20 marks)
2. Define and explain desensitization techniques.
(4+16 = 20 marks)
3. **Write short notes on:**
 - 3A. Describe various exercises to increase muscle strength.
(10 marks)
 - 3B. Define and explain any four types of gestures.
(2+8 = 10 marks)
 - 3C. Explain information processing model.
(10 marks)
 - 3D. Explain figure-of-eight and volumetric method of edema assessment.
(5+5 = 10 marks)

