

MANIPAL UNIVERSITY**SECOND YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2010****SUBJECT: PATHOLOGY AND MICROBIOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, December 13, 2010

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- ✍ **Answer section A and section B in TWO separate answer books.**
✍ **Draw labelled diagrams wherever appropriate.**

SECTION 'A': PATHOLOGY: 40 MARKS

1. Define inflammation. Discuss the cellular events of acute inflammation. (1+7 = 8 marks)
2. What are the types of fractures? Discuss the process of fracture healing. Add a note on factors influencing fracture healing. (1+4+2 = 7 marks)
3. **Write short notes on:**
- 3A. Predisposing factors and complications of atherosclerosis.
3B. FAB classification of leukemia.
3C. Spread of tumors.
3D. Fate of thrombus.
3E. Viral hepatitis.

(5×5 = 25 marks)

SECTION 'B': MICROBIOLOGY: 40 MARKS

4. Classify methods of Sterilization. Discuss sterilization by moist heat above 100°C in detail. (3+5 = 8 marks)
5. Discuss the etio-pathogenesis of leprosy. Add a note on its laboratory diagnosis. (5+2 = 7 marks)
6. **Write short notes on:**
- 6A. Innate immunity.
6B. Gram negative bacterial cell wall.
6C. Pathogenesis of polio.
6D. Laboratory diagnosis of UTI.
6E. Food poisoning.

(5×5 = 25 marks)



MANIPAL UNIVERSITY**SECOND YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2010****SUBJECT: PHARMACOLOGY
(COMMON FOR BOTH OLD & NEW REGULATIONS)**

Wednesday, December 15, 2010

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. Name two antihypertensives acting by different mechanism and one adverse effect of each.
(3+1 = 4 marks)
- 2A. Name two NSAIDs and explain two uses of one of them.
2B. Explain how nitroglycerine improves exercise performance in angina patients.
((1+3)+2 = 6 marks)
3. Give one use and one contraindication for:
- 3A. Morphine
3B. Ciprofloxacin
3C. Glibenclamide
3D. Gentamicin
3E. Lignocaine + Adrenaline
(2×5 = 10 marks)
4. Explain the pharmacological basis for the following:
- 4A. Atropine in organophosphorous poisoning
4B. Bromhexine in bronchiectasis
4C. Benzyl Penicillin in syphilis
4D. Carbimazole in thyrotoxicosis
4E. Piroxicam for myalgia
(2×5 = 10 marks)
- 5A. Name two bronchodilators and mention their routes of administration.
5B. Name two examples for transdermal route of drug administration with one indication for each.
5C. Name two drugs that can limit musculoskeletal functions with reasons.
5D. Mention two uses of Diazepam with its basis.
5E. Mention two uses and two adverse effects of Phenytoin.
(2×5 = 10 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2010

SUBJECT: DEVELOPMENTAL AND ORGANIZATIONAL PSYCHOLOGY

Friday, December 17, 2010

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer all questions. All questions carry equal marks.**

1. Define development and discuss the broad approaches to studying development.
2. Describe the organizational conditions that are conducive for effective coping.
3. Describe the major mile stones in motor development and explain the methods of assessing motor skills.
4. **Write short notes on:**
 - 4A. Social skills.
 - 4B. Complex man and the implied managerial strategy.
 - 4C. Processes of adaptive-coping cycle.
 - 4D. Development of thinking.

