

MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2011

**SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, December 12, 2011

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

✍ **Answer SECTION "A" and SECTION "B" in two separate answer books.**

SECTION "A": CLINICAL ORTHOPAEDICS: 40 MARKS

✍ **Answer ALL the questions.**

1. Define and classify nerve injuries. What is Tinels sign? What is its clinical significance?
(10 marks)
2. Define nonunion? Enumerate the causes of nonunion. Describe the principles of management of nonunion.
(10 marks)
- 3A. Classify bone tumours
- 3B. De Quervains Disease
- 3C. Gait cycle
- 3D. Seronegative arthritis

(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. **Write short notes on any FOUR out of the following five questions:**

- 4A. Describe the clinical features of Raynaud's phenomenon.
- 4B. Mention salient investigations for diagnosis of Gout.
- 4C. Describe clinical features of Henoch Schölein Purpura.
- 4D. Explain the etiopathogenesis, investigations and treatment for Perthe's disease.
- 4E. Enlist the criteria for diagnosis of RA.

(5×4 = 20 marks)

✍ **Answer any TWO out of the following three questions:**

- 5A. Define Scleroderma.
- 5B. Describe its clinical features.
- 5C. Enlist salient investigations and treatment options.

(1+4+5 = 10 marks)

- 6A. Define Osteoporosis.
- 6B. Describe the etiopathogenesis and clinical features.
- 6C. Discuss how to investigate and treat a patient with osteoporosis.

(1+4+5 = 10 marks)

- 7A. Define Septic Arthritis.
- 7B. Enlist the common organisms causing septic arthritis.
- 7C. Describe the common clinical manifestations.
- 7D. Mention any two important tests to diagnose Septic Arthritis and enumerate appropriate drugs for treatment.

(1+2+3+ (2+2) = 10 marks)



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MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2011

SUBJECT: NEUROSCIENCE/NEUROLOGICAL SCIENCE
(COMMON FOR BOTH OLD & NEW REGULATION)

Tuesday, December 13, 2011

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

Answer any FOUR questions. Each question carries TWENTY marks.

1. Head injury
 - Causes and mechanism of head injury
 - Types of Neurological disorder following head injury
 - Management of head injury in acute stage

2. Myasthenia gravis - Etiopathogenesis, clinical features, management

3. Multiple sclerosis
Etiopathogenesis, clinical features, management

4. **Short notes:**
 - 4A. Transverse myelitis
 - 4B. Radiation myelopathy
 - 4C. Dyskinesia
 - 4D. Akinetic rigid syndrome

5. **Short notes:**
 - 5A. Complex regional pain syndrome
 - 5B. Organophosphate poisoning
 - 5C. Beri Beri
 - 5D. Guillian Barre Syndrome



MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2011****SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(COMMON FOR BOTH OLD & NEW REGULATION)**

Wednesday, December 14, 2011

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL questions.**1. Essay questions:**

- 1A. Explain the physiotherapy management of stroke in acute stage. Add a note on unilateral neglect.
- 1B. Explain the physiotherapy management of a patient with T6 segment level complete spinal cord injury.

 $((8+2)+10 = 20 \text{ marks})$ **2. Write short answers:**

- 2A. Describe the principles of coma stimulation.
- 2B. Describe the exercises for treating incoordination.
- 2C. Discuss about the postural abnormalities in Parkinson's disease.
- 2D. Describe the physiotherapy management for bell's palsy.
- 2E. Write the management of Guillaine barre syndrome in recovery stage.
- 2F. Mention the principles of PNF.
- 2G. Describe the physiotherapy management of a child with athetotic cerebral palsy.
- 2H. Discuss about energy conservation techniques.

 $(5 \times 8 = 40 \text{ marks})$ **3. Write briefly:**

- 3A. What is instinctive grasp reaction.
- 3B. Mention any two assumptions of sensory integration therapy.
- 3C. How do you take care of your anesthetic hand?
- 3D. What is retropulsion? How do you manage it?
- 3E. What is milk maid sign?
- 3F. Mention the stages of motor relearning program.
- 3G. What is on-off phenomenon?
- 3H. Mention any two differences between right and left cerebral hemisphere stroke.
- 3I. Classify spina bifida.
- 3J. Mention the methods of care for erb's palsy hand.

 $(2 \times 10 = 20 \text{ marks})$ 

MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2011****SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Thursday, December 15, 2011

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL questions.**

1. Essay Questions:

- 1A. Discuss the assessment and management of a patient with shoulder impingement syndrome.
- 1B. Discuss regarding preoperative and postoperative management for total knee replacement.

(10×2 = 20 marks)

2. Write briefly:

- 2A. Discuss physiotherapy management for Patellofemoral pain syndrome.
- 2B. Conservative management for thoraco-lumbar scoliosis.
- 2C. Physiotherapy management for Haemophilic arthritis.
- 2D. Physiotherapy management following L4- L5 disc prolapse.
- 2E. Physiotherapy management for frozen shoulder.
- 2F. Discuss the signs and symptoms of carpal tunnel syndrome.
- 2G. Physiotherapy management following Pott's fracture.
- 2H. Describe any two tests to evaluate Lateral ankle sprains.

(5×8 = 40 marks)

3. Write very briefly:

- 3A. Features of an Ideal stump following a below knee amputation.
- 3B. Do's and Don'ts following Total hip replacement.
- 3C. Any two joint protection techniques for arthritic hand.
- 3D. List any two clinical tests to diagnose tennis elbow.
- 3E. Describe Swan neck deformity.
- 3F. Interpretation of Resisted isometric muscle test.
- 3G. Functional position for wrist arthrodesis.
- 3H. Physiotherapy management for Coccydynia.
- 3I. Capsular pattern for shoulder joint.
- 3J. Attitude of upper limb following Volkmann's Ischaemic Contracture.

(2×10 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2011****SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
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(2×10 = 20 marks)



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MANIPAL UNIVERSITY

THIRD/FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2011

SUBJECT: ETHICS/ADMINISTRATION AND TEACHING SKILLS
(NEW REGULATION)

Friday, December 16, 2011

Time: 10:00-11.30 Hrs

Maximum Marks: 40

✍ **Answer ALL questions.**

✍ **Essay Question:**

1. What is the international organization governing physiotherapy? What are their rules and regulations governing physiotherapy education?

(10 marks)

✍ **Short Notes:**

- 2A. Autonomy
2B. Compensation
2C. Confidentiality
2D. What are the ethical issues encountered in clinical practice?

(5×4 = 20 marks)

✍ **Brief Answers**

- 3A. Define ethics.
3B. What is medical service?
3C. Beneficence
3D. Barriers
3E. Informed consent

(2×5 = 10 marks)



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MANIPAL UNIVERSITY

THIRD/FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2011

SUBJECT: COMMUNITY MEDICINE AND SOCIOLOGY
(NEW REGULATION)

Saturday, December 17, 2011

Time 10:00-13:00 Hours

Maximum Marks: 80

✍ Answer ALL questions.

✍ Answer SECTION 'A' and SECTION 'B' in TWO separate answer books.

SECTION 'A': COMMUNITY MEDICINE : 40 MARKS

1A. Define health.

1B. What are the different levels of disease prevention?

1C. Describe the modes of intervention.

(1+4+5 = 10 marks)

2. Write short notes on:

2A. Prevention of blindness

2B. Contraceptive methods

2C. Modes of transmission of HIV /AIDS

2D. Epidemiological studies

2E. Health education to the community regarding cancers

2F. ESI Act

(5×6 = 30 marks)

SECTION 'B': SOCIOLOGY : 40 MARKS

3. Explain the various welfare schemes for the disabled.

(10 marks)

4. Explain the meaning of rural and urban communities and their health problems.

(10 marks)

5. Define culture. Explain its characteristics.

(2+8 = 10 marks)

6. Short Answers:

6A. Social change and health programme

6B. Effect of sickness on family

(5×2 = 10 marks)

