MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2013

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

Tuesday, June 11, 2013

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

1. What are the causes for back ache? Non operative management of backache.

(10 marks)

2. Define nonunion. Enumerate the causes of nonunion. Describe the principles of management of nonunion.

(10 marks)

3A. Claw hand
3B. Clinical features of Club Foot
3C. Fat embolism
3D. Osteosarcoma

(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. **Write short notes on any FOUR of the following five questions:**
4A. Discuss the investigation and treatment of Rheumatoid Arthritis.
4B. What is Henoch-Schonlein purpura? Discuss the clinical features, investigation and treatment.
4C. Discuss extra articular manifestations of Rheumatoid Arthritis.
4D. Describe calcium metabolism. Mention two disorders associated with it.
4E. Write a note on Raynaud's phenomenon. Mention three differences between Raynaud's phenomenon and Raynaud's disease.

(5×4 = 20 marks)

✍ **Answer any TWO of the following three questions:**
5A. Discuss clinical features of Ankylosing spondylitis.
5B. Mention the investigations to diagnose Ankylosing Spondylitis.
5C. Treatment of Ankylosing spondylitis.

(4+3+3 = 10 marks)

6A. Discuss the causes and clinical features of osteoarthritis.

6B. Enlist the investigations and discuss management of osteoarthritis.

6C. Mention four causes of Avascular Necrosis.

(4+4+2 = 10 marks)

7A. What is gout? Discuss etiology of gout.

7B. Discuss the clinical features, investigations and treatment of gout.

7C. List three important differences between gout and pseudogout.

(3+4+3 = 10 marks)

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THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2013

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

Thursday, June 13, 2013

Time: 10:00-13:00 Hrs.   Maximum Marks: 80

✍ **Answer any FOUR questions. Each question carries TWENTY marks.**

1. Define Cerebro vascular accident.
    Enumerate risk factors and etiopathologies
    Enumerate clinical features of lateral medullary syndrome
    Management of intracerebral hematoma

2. What is Parkinson's disease? Enumerate etiopathogenesis, clinical features and management of Parkinson's disease.

3. Meningitis - Etiopathogenesis, clinical features, management

4. **Short notes:**

4A. Organophosphate poisoning
4B. Lead poisoning
4C. GB syndrome
4D. Poliomyelitis

5. **Short notes:**

5A. Rabies
5B. Subdural hematoma
5C. Pellagra
5D. Beri Beri

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THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2013

SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(COMMON FOR 2008 & OLD REGULATION)

Saturday, June 15, 2013

Time: 10:00-13:00 Hrs.   Maximum Marks: 80

✍ **Answer ALL questions.**

1.   **Essay questions:**

1A.   Explain the assessment and physiotherapy management of Parkinson's disease.

(5+5 = 10 marks)

1B.   Define cerebral palsy (CP). What are the different types of gait in a child with CP? Explain the physiotherapy management of a seven month old hypotonic child with delayed mile stones.

(2+3+5 = 10 marks)

2.   **Short notes:**

2A.   Principles of neurological assessment in physiotherapy

2B.   Treatment techniques for residual paralysis following GBS

2C.   Principles of energy conservation techniques

2D.   Steps of motor relearning program

2E.   Physiotherapy management in post stroke shoulder subluxation

2F.   Physiotherapy management of children with somatosensory disorders

2G.   Physiotherapy management principles following laminectomy

2H.   Ataxia training program

(5×8 = 40 marks)

3.   **Brief answers:**

3A.   What is associated reaction?

3B.   Mention any two techniques to reduce spasticity.

3C.   What are the components of circumduction gait?

3D.   What is retropulsion? How do you manage it?

3E.   Mention any two treatment techniques for urinary continence.

3F.   Mention four treatment methods used for bell's palsy.

3G.   What is uthoff symptom?

3H.   What is valley sign? Which condition is it associated with?

3I.   Mention two mechanisms explaining causes for BPPV.

3J.   What is waiters tip receiving position? Give reason for the position.

(2×10 = 20 marks)

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THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2013

SUBJECT: ETHICS/ADMINISTRATION AND TEACHING SKILLS
(2008 REGULATION)

Thursday, June 20, 2013

Time: 10:00-11.30 Hrs

Maximum Marks: 40

✍ **Answer ALL questions.**

✍ **Essay questions:**

1. Explain the ethical issues in clinical research.

(10 marks)

2. **Brief Answer:**

2A. Consumer protection act

2B. Interdisciplinary communication

2C. Document storage

2D. Universal precautions

(5×4 = 20 marks)

3. **Short Notes:**

3A. Mention any two ethical rules of Indian Association of Physiotherapists.

3B. Mention any two uses of public education.

3C. Mention any two rights of patient in relation to treatment options.

3D. What is staff: patient ratio?

3E. Mention the principles of bioethics.

(2×5 = 10 marks)

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THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2013

SUBJECT: COMMUNITY MEDICINE AND SOCIOLOGY
(2008 REGULATION)

Saturday, June 22, 2013

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

1. **Essay/Long Questions:**

1A. Briefly describe the various levels of prevention with examples.

1B. Describe the natural history of disease, taking polio myelitis as an example.

(5+5 = 10 marks)

2. **Short Questions:**

2A. Classify the various occupational hazards and state examples for the same.

2B. Describe the hazards of obesity and steps in its prevention.

2C. Briefly describe the steps to prevent maternal mortality.

2D. Disaster preparedness

2E. National immunization schedule

2F. Integrated Vector Control

(5×6 = 30 marks)

SECTION 'B': SOCIOLOGY : 40 MARKS

3. What is socialization? Explain the process of socialization.

(2+8 = 10 marks)

4. Explain the meaning and factors of social change.

(2+8 = 10 marks)

5. What are the problems of women in employment? Suggest measures to solve it.

(5+5 = 10 marks)

6. **Short Answers:**

6A. Role of rural community in public health

6B. Role of medical social worker

(5×2 = 10 marks)

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