MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2018

SUBJECT: ORTHOPAEDICS & RHEUMATOLOGY/CLINICAL ORTHOPAEDICS & RHEUMATOLOGY
(2008 REGULATION/2015 & 2011 SCHEME)

Saturday, June 02, 2018

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

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

SECTION "A": ORTHOPAEDICS/CLINICAL ORTHOPAEDICS: 40 MARKS

1. What are the clinical and radiological features of osteoarthrosis of the knee joint? Add a note on non operative management of osteoarthrosis of the knee joint.

(10 marks)

2. Classify the fractures of spine based on mechanism of injury. Write notes on management of a patient with paraplegia.

(10 marks)

3. **Write short notes on:**

3A. Myositis ossificans
3B. Osteosarcoma
3C. Claw hand
3D. Nutritional rickets

(5 marks × 4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

1. **Write short notes on any FOUR out of the following FIVE questions:**

1A. Mention the criteria for diagnosis of Rheumatoid arthritis.
1B. Discuss the clinical features and treatment of Giant Cell arteritis.
1C. Enlist the various seronegative spondyloarthropathies. Mention two differentiating features between ankylosing spondylitis and reactive arthritis.
1D. Discuss the clinical features and treatment of Psoriatic arthropathy.
1E. Enlist four differences between rheumatoid arthritis and osteoarthritis. Name one extraarticular manifestation of Rheumatoid arthritis.

(5 marks × 4 = 20 marks)

✍ **Answer any TWO FULL questions out of Question No. 2, 3 and 4:**

2A. Describe the stages of involvement of kidney in SLE.
2B. Enlist the salient investigations.
2C. Mention the various treatment options available.

(4+3+3 = 10 marks)

3A. Define Sjogren's syndrome.

3B. Describe the clinical features.

3C. Enlist the principal investigations to diagnose the condition.

(3+3+4 = 10 marks)

4A. Define gout.

4B. What is podagra?

4C. Enumerate the major investigations and treatment options.

(3+3+4 = 10 marks)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2018

SUBJECT: NEUROSCIENCES
(2008 REGULATION/2015 & 2011 SCHEME)

Tuesday, June 05, 2018

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

✍   **Answer any FOUR questions.**

1.   Parkinsons Disease – enumerate

      - Pathophysiology

      - Clinical features

      - Parkinsons Plus syndromes

      - Management

                                                                          (20 marks)

2A.   Enumerate clinical features and management of subarachnoid hemorrhage

2B.   Clinical subtypes of motor neuron disease

                                                                          (20 marks)

3.   Multiple sclerosis – enumerate

      - Etiopathogenesis

      - Clinical features

      - Management

                                                                          (20 marks)

4.   **Write short notes on:**

4A.   Absence seizures

4B.   BELL'S PALSY

4C.   Trigeminal Neuralgia

4D.   Migraine

                                                          (5 marks × 4 = 20 marks)

5A.   Alcohol toxicity

5B.   Wernicke's Aphasia

5C.   Hysterical paraplegia

5D.   Alzheimer's dementia

                                                          (5 marks × 4 = 20 marks)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2018

SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(2008 REGULATION)

Thursday, June 07, 2018

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

✍ **Answer ALL the questions.**

1. **Essay questions:**

1A. Describe the role of physical therapist in the management of the patient with traumatic brain injury who is in state of no response (RLA stage I)

(10 marks)

1B. What are the types of peripheral nerve injuries? Mention the causes for sciatic nerve injury and physiotherapy management for a patient who has been managed conservatively.

(10 marks)

2. **Write short answers:**

2A. Brunnstrom recovery stages in stroke

2B. Respiratory care in tetraplegia

2C. Physiotherapy management for cerebellar gait

2D. Principles of NDT

2E. Role of orthosis and spinal brace in muscular dystrophy

2F. Physiotherapy management for Hoehn &Yahr IIIrd & IVth stages in Parkinson's disease

2G. Combined cortical sensations

2H. Physiotherapy management for C5-C8 Transverse myelitis

(5 marks × 8 = 40 marks)

3. **Write briefly:**

3A. What is Rhomberg's sign?

3B. Define: Apraxia

3C. Define: Quick icing

3D. Define: Sacral-sparing

3E. What is Gower's sign?

3F. What are the afferent and efferent pathways in Pupillary light reflex?

3G. Enumerate the grading of deep tendon reflex

3H. What is Dysarthria?

3I. Define: Lhermitee's sign

3J. Define: Spastic bladder

(2 marks × 10 = 20 marks)

✍ **Answer ALL questions.**

1. **Essay questions:**

1A. Discuss the assessment and stage wise management of adhesive capsulitis.

1B. Describe the post operative physiotherapy management for a patient with total knee replacement.

(10 marks × 2 = 20 marks)

2. **Write briefly on:**

2A. Joint protection techniques for insensitive hand.

2B. Conservative management for carpal tunnel syndrome.

2C. Physiotherapy management for anterior cruciate ligament injuries.

2D. Zones of flexor tendon injuries.

2E. Conservative management for grade II ankle sprains.

2F. Physiotherapy management in supracondylar fracture of humerus.

2G. Describe any two tests to evaluate shoulder impingement syndrome.

2H. Discuss the physiotherapy management of plantar fascitis.

(5 marks × 8 = 40 marks)

3. **Write very briefly on:**

3A. Interpretation of resisted isometric testing.

3B. Grades of spondylolisthesis

3C. Components of deformity in CTEV

3D. List out the clinical tests for knee joint meniscal injuries

3E. Describe swan neck deformity

3F. Components of ULTT-1

3G. Functional position for hip arthrodesis

3H. Complications of Pott's fracture

3I. Capsular pattern for shoulder joint

3J. Management of haemophilic arthritis in acute stage

(2 marks × 10 = 20 marks)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2018

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

Tuesday, June 12, 2018

Time: 10:00-11.30 Hrs　　　　　　　　　　　　　　　　　Maximum Marks: 40

✍　**Answer ALL questions.**

✍　**Essay questions:**

1.　Explain the plan of establishment of a private clinic in rural set up.

(10 marks)

2.　**Write short notes on:**

2A.　Explain in detail the issues of independent practice in India.

2B.　Discuss in detail about public relations.

2C.　Write in detail about any five issues encountered by a Physiotherapist in applying funding for medical research in India.

2D.　What are the requirements of an informed consent form?

(5 marks × 4 = 20 marks)

3.　**Write brief answers on:**

3A.　What do you mean by patients right to refuse treatment?

3B.　What is vicarious liability?

3C.　Write any two methods to maintain staff morale in the department.

3D.　Write about any two ethical issues with regard to treatment of children.

3E.　What is the ideal staff:patient ratio in a private set up?

(2 marks × 5 = 10 marks)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2018

SUBJECT: COMMUNITY MEDICINE & SOCIOLOGY/SOCIAL & PREVENTIVE
MEDICINE AND SOCIOLOGY
(2008 REGULATION/2011 & 2015 SCHEME)

Thursday, June 14, 2018

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/SOCIAL AND PREVENTIVE MEDICINE: 40 MARKS

✍ **Long Question:**

1. Define 'epidemiology'. Classify epidemiological study designs. Describe the steps in conducting a Randomized Controlled Trial (RCT).

(2+3+5 = 10 marks)

2. **Write short notes on:**
2A. Types of 'carriers' with suitable examples
2B. Clinical features and prevention of iron deficiency anemia
2C. Factors affecting infant mortality
2D. Uses of growth charts
2E. Modes of intervention under tertiary prevention
2F. Functions of World Health Organization (WHO)

(5 marks × 6 = 30 marks)

SECTION 'B': SOCIOLOGY : 40 MARKS

1. Explain the meaning of norms and law and their role in regulation of human behaviour.

(4+6 = 10 marks)

2. What is health? Discuss the social factors affecting health status.

(2+8 = 10 marks)

3. Explain the influence of informal and formal groups on health and sickness.

(10 marks)

4. **Write short notes on the following:**
4A. Effects of sickness on family
4B. Social change and health program

(5+5 = 10 marks)

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