

MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2015****SUBJECT: ORTHOPAEDICS & RHEUMATOLOGY/CLINICAL ORTHOPAEDICS &
RHEUMATOLOGY****(COMMON FOR OLD & 2008 REGULATION/2011 BATCH)**

Tuesday, December 15, 2015

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. Define Cerebral palsy. Enumerate the types of cerebral palsy based on pattern and type of involvement. Discuss the principles of management.
(10 marks)

2. Define fracture. Classify different types of fractures. Describe the principles of management of an open fracture.
(10 marks)

- 3A. Complications of Colles' fracture
- 3B. Osteosarcoma
- 3C. Claw hand
- 3D. Ankle foot orthosis (AFO)
(20 marks)

SECTION “B”: RHEUMATOLOGY: 40 MARKS

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

- 4A. Psoriatic Arthritis
- 4B. Adult-onset Still's disease
- 4C. Clutton's joint
- 4D. Reiter's syndrome
- 4E. Osteomalacia

(5 marks × 4 = 20 marks)

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

- 5A. Classify systemic vasculitides based on the vessel involved.
- 5B. Discuss the clinical features of Churg-Strauss syndrome.
- 5C. Add a note on ANCA.

(4+4+2 = 10 marks)

- 6A. Enumerate crystal arthropathies.
- 6B. Discuss the pathophysiology and etiology of crystal formation in a joint.
- 6C. Compare and contrast Gout Vs Pseudogout.

(2+4+4 = 10 marks)

- 7A. Enumerate four causes of symmetrical polyarthritis.
- 7B. Add a note on CREST Syndrome.
- 7C. Discuss clinical manifestation of Systemic Sclerosis.
- 7D. How do you investigate and manage Systemic Sclerosis?

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



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THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: NEUROSCIENCES
(OLD & 2008 REGULATION/2011 BATCH)

Wednesday, December 16, 2015

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

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

1. Write detailed note on normal development and maturation from birth. Gross motor development, fine motor and cognitive development.
2. **Write short note on:**
 - 2A. Multi system atrophy
 - 2B. Motor Neuron Disease
 - 2C. Wilsons disease
 - 2D. Epilepsy
3. Multiple sclerosis – Etiopathogenesis, Clinical features, Management
4. **Write short note on:**
 - 4A. Epidural hematoma
 - 4B. Phenobarbitone
 - 4C. Neurogenic bladder
 - 4D. Vitamin B12 Neuropathy
5. Classify stroke, mention risk factors, clinical features and management of embolic stroke.



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THIRD YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: OCCUPATIONAL THERAPY IN ORTHOPAEDICS AND SURGICAL CONDITIONS
(2011 BATCH)

Thursday, December 17, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

☞ Answer ALL the questions

☞ Draw the diagram wherever necessary.

☞ Long Questions:

1. Describe any five complications of amputation. Explain pre-prosthetic occupational therapy management for upper limb amputation.

(10+10 = 20 marks)

2. Explain post-operative occupational therapy management for femoral neck fracture with emphasis on assistive devices.

(15+5 = 20 marks)

3. Write short notes on:

3A. Explain any two finger deformities of rheumatoid arthritis

(5+5 = 10 marks)

3B. Import of work hardening in hand injuries

(10 marks)

3C. Occupational therapy management for heterotrophic ossification

(10 marks)

3D. Hyper trophic scar and its management

(4+6 = 10 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGICAL, GERIATRIC AND
MEDICAL CONDITIONS
(2011 BATCH)

Friday, December 18, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

✍ **Long Questions:**

1. What is Guillain Barre' Syndrome? Describe its impact on occupational functioning and occupational therapy management of the same.

(2+8+10 = 20 marks)

2. Explain the neuromuscular impairments seen in persons with traumatic brain injury and their effects on functional ability.

(20 marks)

3. **Write short notes on:**

3A. Describe focus of occupational therapy care in extended and outpatient neurological rehabilitation.

(5+5 = 10 marks)

3B. Use of heat and cold as modalities in pain management

(10 marks)

3C. Compensatory techniques in simple food preparation for patients with vision loss

(10 marks)

3D. Recovery stages of hand according to Brunnstrom approach

(10 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION (2011 BATCH)

Saturday, December 19, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- ✍ **Answer ALL the questions.**
- ✍ **Draw diagram wherever necessary.**

✍ **Long Questions:**

1. Describe any five types of transfers and their significance. (20 marks)
2. Define assistive technology and explain the factors influencing its selection. Describe role of person environment interaction model in relation to assistive technology. (3+14+3 = 20 marks)
3. **Write short notes on:**
 - 3A. Features of acute care inpatient settings (10 marks)
 - 3B. Precautions and contraindications for therapeutic ultrasound (10 marks)
 - 3C. Mention any five general safety procedures and standard infection control measures followed in clinics. (5+5 = 10 marks)
 - 3D. Application of EMG biofeedback for decreasing spasticity (10 marks)



MANIPAL UNIVERSITY**THIRD/FOURTH YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2015****SUBJECT: COMMUNITY MEDICINE & SOCIOLOGY/SOCIAL & PREVENTIVE
MEDICINE AND SOCIOLOGY****(COMMON FOR 2008 REGULATION/OR AND 2011/2010 BATCH)**

Monday, December 21, 2015

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**✍ **Essay Question:**

1. Describe the agent, host and environmental factors of leprosy. Discuss the modes of transmission and incubation period of this disease.

(6+3+1 = 10 marks)

2. **Write short notes on:**

2A. What is Pneumoconiosis? Write briefly on silicosis.

(1+4 = 5 marks)

2B. What are live vaccines? Explain with examples. What are their advantages over inactivated vaccines?

(1+4 = 5 marks)

2C. Write a note on screening for diabetes.

(5 marks)

2D. Describe the principles of health education.

(5 marks)

2E. What is triage? Explain.

(1+4 = 5 marks)

2F. Describe the components of National Goitre Control Programme.

(5 marks)

SECTION 'B': SOCIOLOGY : 40 MARKS

1. Is Sociology a science? Explain the uses of the knowledge of Sociology to the Physiotherapists.

(5+5 = 10 marks)

2. What are social groups? Discuss the influence of formal and informal groups on health and sickness.

(2+8 = 10 marks)

3. What is Juvenile Delinquency? How does it affect health? Suggest remedies.

(2+4+4 = 10 marks)

4. **Write short notes on the following:**

4A. Family and nutrition

4B. Impact of culture on human behavior

(5 marks × 2 = 10 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2015

**SUBJECT: OCCUPATIONAL PERFORMANCE: ADL, WORK AND LEISURE
(2011 BATCH)**

Tuesday, December 22, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer ALL the questions.

1. Explain the following basic transferable skills:

1A. Mobility

1B. Manipulative hand skills

(5+5 = 10 marks)

2. Explain the evaluation in the process of return to work.

(10 marks)

3. **Write short notes on:**

3A. Support required by carers to fulfill their role duties

3B. Kohlman Evaluation of Living Skills

3C. Interventions for parents with psychiatric disabilities

3D. Evaluation of play and leisure as an activity

(5 marks × 4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2015
SUBJECT: BIO-ENGINEERING
(2011 BATCH)

Wednesday, December 23, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer ALL questions.

✍ Draw diagrams and flow charts wherever appropriate.

✍ Long Questions:

1. What is C.D.H.? Explain in detail clinical features and orthotic management of C.D.H. (10 marks)
2. Explain in detail checkout procedure of B.E Prosthesis. (10 marks)
3. Functions of Quadrilateral Socket. (5 marks)
4. Write short notes any THREE of the following:
 - 4A. SACH Foot
 - 4B. Boston Brace
 - 4C. Types of mechanical Ankle Joint
 - 4D. Knight Spinal Brace(5 marks × 3 = 15 marks)

