

Roll No.



**Master of Physiotherapy (M.P.T.) – [Orthopedics]**

**1<sup>st</sup> YEAR EXAMINATION, 2009-10**

**MEDICAL & SURGICAL MANAGEMENT IN DISORDERS  
OF THE MUSCULOSKELETAL SYSTEM**

*Time : 3 Hours ]*

*[ Max. Marks : 100*

*Note: This question paper contains two sections 'A' and 'B'. Attempt all the sections as per instructions.*

**Section A**

**Attempt any four questions of this section.**

1. Write in detail the assessment and management of 50 year old male patient suffering from Intracapsular Fracture neck of femur. [20]
2. Describe the diagnosis and management of Pott's Paraaegia. [20]
3. Discuss analysis of GAIT and its importance. Describe normal Gait, abnormal Gait patterns and give details of Trendelenburg's Gait and pathological condition in which you can find such Gait. [20]
4. Enumerate the causes and types of Supraspinatos Syndrome. Give the assessment and management in detail. [20]
5. Describe Arthrogryposis Multiplexa Congenita with its etiopathology, clinical features, assessment and management in detail. [20]

**Section B**

**6. Write short notes on any four:**

[5×4=20]

- (a) Giant Cell Tumour
- (b) Flat back and its management
- (c) Ankylosing Spondylitis
- (d) CDH (Congenital Dislocation of the Hip)
- (e) Myositis Ossificans
- (f) Arthroscopy of Knee

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**Master of Physiotherapy (M.P.T.) - [Orthopedics]**  
**1<sup>st</sup> YEAR EXAMINATION, 2009-10**  
**PHYSIOTHERAPY MANAGEMENT IN DISORDERS OF THE**  
**MUSCULOSKELETAL SYSTEM-I**

Time : 3 Hours |

[Max. Marks : 100]

**Note:** This question paper contains two sections 'A' and 'B'. Attempt all the sections as per instructions.

**Section A**

**Write short notes on any Five parts of question no.1.**

[8×5=40]

1. (a) Q-angle with its clinical relevance in Coxa Vara  
 (b) Myositis Ossificans  
 (c) Erb's Palsy  
 (d) Genu Valgum  
 (e) Dequarian's  
 (f) C.D.H.  
 (g) Rickets

**Section B**

**Attempt any three questions of this section in detail.**

[20×3=60]

2. A 51 year old male constructor experienced stabbing pain in back while lifting a heavy load. Pain did not allow him to bend or straighten. His coworker drove him home. Lying was little comfortable than sitting and standing. After several days rest, pain reoccurred while walking up hill; but this time it was post thigh, leg, right buttocks radiation which aggravated on coughing, sneezing and straining for bowels.  
 Discuss the probable diagnosis with P.T. management.
3. A 29 year old woman presents with constant burning of her right hand and wrist and distal forearm which has spread over proximal over preceding 2 weeks. She complains of loss of use of her right extremity which at times feels alternately cold or hot. She gives previous H/O cellulites. She has been ruled out for neck, shoulder and lung pathology.  
 Discuss probable diagnosis with P.T. management.
4. Describe possible malalignment that can be observed in fracture humeral shaft at different levels (proximal, mid, distal) with special consideration of P.T. management in contrast to each level.
5. Discuss the post op. P.T. management with prosthetic gait training for Trans Tibial Amputation.

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7. Explain any *four* of following:

[20]

- (a) Probability of committing type-I error
- (b) Statistical Hypothesis
- (c) Non-Parametric Test
- (d) Range
- (e) Coefficient of Variation
- (f) Normal Distribution

8. (a) What kind of hypothesis can be tested by the student t-test? Write the basic assumptions about the t-test. [10]

(b) Discuss about the paired t-test with an example. [10]

9. Define Karl Pearson Coefficient of correlation. The age in years of fourteen young couple is given below: [20]

|             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Husband (x) | 21 | 25 | 26 | 24 | 22 | 30 | 19 | 24 | 28 | 32 | 31 | 29 | 21 | 18 |
| Wife (y)    | 19 | 20 | 24 | 21 | 21 | 24 | 18 | 22 | 19 | 30 | 27 | 26 | 19 | 18 |

Calculate the correlation coefficient for the above data and interpret the result.

10. (a) What is the generation in computer terminology? [10]  
Discuss in brief.

(b) What is an operating system? Why it is necessary for a computer system? [10]

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Master of Physiotherapy (M.P.T.) – [Orthopedics]

1<sup>st</sup> YEAR EXAMINATION, 2009-10

PHYSIOTHERAPY MANAGEMENT IN DISORDERS OF  
THE MUSCULOSKELETAL SYSTEM-II

Time : 3 Hours ]

[ Max. Marks : 100

*Note: Attempt any Five questions. Draw diagrams wherever necessary.*

1. Explain the classification of Femur Neck Fractures and its medical and surgical management. [20]
2. Describe the etiopathogenesis, clinical features, diagnosis and medical management of Ankylosing Spondulitis. [20]
3. Write short notes on any two: [20]
  - (a) Complex Regional Pain Syndrome
  - (b) Congenital Spinal Disorders
  - (c) Fractures around the Wrist
4. Explain the pathogenesis, clinical features and medical and surgical management of Pott's Spine. [20]
5. Briefly describe any two: [20]
  - (a) Facial Nerve Palsy
  - (b) Pott's Fracture
  - (c) Ulnar Nerver Injury at the level of Elbow-Clinical features.
6. Classify muscular dystrophies. Describe the clinical features of Duchenne's muscular dystrophy. [20]
7. Write short notes on any two: [20]
  - (a) CTEV
  - (b) Supracondylar fracture of humerus
  - (c) Rickets
8. Describe the etiopathology, diagnosis and medical management of Rheumatoid Arthritis. [20]

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