Total Duration: 3 Hours

Instructions:
1. Use blue/black ball point pen only.
2. Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
3. All questions are compulsory.
4. The number to the right indicates full marks.
5. Draw diagrams wherever necessary.
6. Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
7. Use a common answer book for all Section.

SECTION – A SAQ (50 Marks)

1. Short answer question (any five out of six):
   (5x3=15)
   a) Enumerate any three tests for Peripheral Arterial and Venous circulation.
   b) Define Metabolic equivalent and write its significance.
   c) Explain Faradic Galvanic Test.
   d) Bryant's triangle.
   e) Define End feel. Enumerate different types of pathological end feels.
   f) Write any three positive radiographic findings of Pulmonary tuberculosis.

2. Short answer question (any five out of six):
   (5x7=35)
   a) Explain the neurodevelopment of hand function.
   b) Write principles and technique of Nerve conduction studies.
   c) Write on midbrain reflexes
   d) Describe types of Muscle Energy Techniques. Add a note on contraindication and side effects of muscle energy technique.
   e) Write principles and explain stages of Brunnstrom approach.
   f) Describe in detail about any three tests for knee joint instability.
3. Long answer question (any one out of two):

a) A 39 year old male, truck driver by occupation sustained trauma and underwent below knee amputation of right side. He is married and having four children. Describe assessment and discuss impairments, activity limitations, participation restrictions and contextual factors with proper clinical reasoning.

b) A 40 year old male carpenter, only earner in his family, sustained # of right humeral which was treated conservatively two months back. He complains of inability to extend his right wrist joint since removal of cast. Describe assessment and discuss impairments, activity limitations, participation restrictions and contextual factors with proper clinical reasoning.

4. Long answer question (any one out of two):

a) A 52 year old male comes with complaint of breathlessness and cough with expectoration since last three years. He is smoker since 20 years and stays on the floor. Discuss in detail about assessment, differential diagnosis and Functional diagnosis as per ICF.

b) A 32 year old software engineer comes with complaint of localised pain in the lumbar spine and difficulty in bending forward in early morning since last 1 month. Write in detail about assessment, differential diagnosis and functional diagnosis as per ICF.