
KINESIOLOGY

Total Duration: 3 Hours

Total Marks: 80

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 answerbook for all sections.

SECTION - "A" SAQ (50 Marks)

1. Short answer question (any five out of six):
   \[5 \times 3 = 15\]
   a) Creep
   b) Young's modulus
   c) Contractile and non contractile structure
   d) Types of muscle fiber
   e) Ligaments of shoulder joint
   f) Convex and concave rule

2. Short answer question (any five out of six):
   \[5 \times 7 = 35\]
   a) Passive insufficiency with suitable example
   b) Structure of a diarthrodial joint
   c) Stress strain curve
   d) Compare close chain with open chain and give examples of each
   e) Explain how immobilization affects joint structures
   f) Compare the composition, properties and function of ligaments with those of tendons

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SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 x 15 = 15]
   a) Explain in detail about the kinematics of hip joint under the following headings :
      i) Movement of femur on pelvis
      ii) Movement of pelvis on hip
      iii) Coordination movement of hip, spine and femur [5 + 5 + 5]
   
   b) Explain in detail the kinematics and kinetics of the lumbar spine in detail. [8 + 7]

4. Long answer question (any one out of two) : [1 x 15 = 15]
   a) Explain in detail the biomechanics of wrist joint under the following headings :
      i) Osteokinematics
      ii) Arthrokinematics [8 + 7]
   
   b) Explain in detail the biomechanics of the thorax under the following headings :
      i) Pump handle movements
      ii) Bucket handle movements
      iii) Muscles of inspiration and expiration [5 + 5 + 5]

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