



PRELIMINARY EXAMINATION 2ND YEAR BPTH 2018-19
KINESIOLOGY

Total Duration: Section A+B = 3 hours

Date: 22/04/2019

Total Marks: 80

Instruction:

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 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)

A. Short answer questions. (Any five out of six)

(5x3)

1. Young's Modulus.
2. Nutation & counter nutation.
3. Joint reaction force.
4. Open Kinematic (OKC) & Close Kinematic chain (CKC) with one eg. Of each.
5. Cora Co-acromial arch.

B. Short answer questions. (Any five out of six)

(5x7)

1. Types of Muscle action.
2. Pump handle & Bucket handle movement.
3. Extensor mechanism of hand.
4. Motions of patella.
5. Supination verses pronation twist.
6. Describe Kinematics & Kinetics of the movement 'overhead pull using both arms in standing position.'





SECTION — B LAQ (30 Marks)

C. Long answer question. (any 1 out of 2)

1. Describe kinetics & kinematics of Tibiofemoral joint. Write a note on patellar influence of quadriceps muscle function. **(10+5)**

OR

Describe the Kinetics & Kinematics of Lumber spine. Add a note on significance of Thoraco Lumbar fascia on spinal stability. **(8+7)**

2. Define Gait. Phases of Gait cycle. Describe the Kinetics & Kinematics of Gait in sagittal plane. **(2+5+8)**

OR

Kinetics & Kinematics of Gleno humeral joint. Write a short note on Scapulo-humeral rhythm. **(10+5)**

-X-X-X-X-X-X-X-X-

