

**Second B.P.Th. (2012) Examination, Summer 2018  
KINESIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 80

**SECTION – A and SECTION – B**

- 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) : **(5×3=15)**
  - a) Describe contractile unit of muscle.
  - b) Classification of muscles as per the fiber arrangement.
  - c) Moment arm of force.
  - d) Types of collagen.
  - e) Define stress and strain.
  - f) Define passive insufficiency of muscle.
  
2. Short answer question (**any five** out of six) : **(5×7=35)**
  - a) Describe arthrokinematics by giving example.
  - b) Write a note on prehensile function of hand.
  - c) Write the kinetics and kinematics of sit to stand.
  - d) Define coxa vara and coxa valga and explain effect of it on abductor muscle.
  - e) Describe closed and open chain exercises.
  - f) Describe kinetics and kinematics of TM joint.

P.T.O.



## SECTION – B LAQ (30 Marks)

3. Long answer question (**any one** out of two) : (1×15=15)
- a) Describe cervical vertebra. Describe kinetics and kinematics of cervical spine. (3+6+6)
- b) Define Gait cycle. Describe kinetic and kinematics of gait. (3+12)
4. Long answer question (**any one** out of two) : (1×15=15)
- a) Describe kinetic and kinematics of ankle joint and write a note on arches of foot. (5+4+6)
- b) Describe the articular surfaces of elbow joint. Write the kinetics and kinematics of it. Write a note on carrying angle. (3+4+4+4)
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