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**Second B.P.TH. (2012) Examination, Summer - 2023 (Phase - III)**  
**KINESIOLOGY**

Total Duration : 3 Hours

Total Marks : 80

- Instructions :**
- 1) Use **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 sections.

**SECTION - "A" SAQ (50 Marks)**

1. Short answer question (any five out of six) : [5 × 3 = 15]

- a) Note on carrying angle of elbow.
- b) Note on classification of joint.
- c) Passive insufficiency.
- d) Write a note on Q- Angle.
- e) Close pack position of hip joint.
- f) Class Three Levers.

2. Short answer question (any five out of six) : [5 × 7 = 35]

- a) Explain Anatomical pulleys in hand complex in detail.
- b) Describe arches of foot and it's function.
- c) Define Osteokinematics and Arthrokinematics. Explain it with examples.

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- d) Active and passive stabilization of shoulder.
- e) Explain factors affecting muscle function.
- f) Explain kinematics of cervical vertebrae.

**SECTION - "B" LAO (30 Marks)**

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

[1 × 15 = 15]

- a) Describe different phases in <sup>stance</sup> ~~stae~~ phase of the gait with muscle work.
- b) Discuss shoulder joint complex in detail under following headings.

[5 + 5 + 5]

- i) Articulations
- ii) Kinematics
- iii) Kinetics



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

[1 × 15 = 15]

- a) Write a note of kinetics, kinematics of ankle joint emphasizing on subtalar joint movement.
- b) Discuss hip joint in detail under following headings.

[4 + 4 + 7]

[5 + 5 + 5]

- i) Articulations
- ii) Kinematics
- iii) Kinetics

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**Second B.P.T.H. (2012) Examination, Winter - 2023 (Phase - II)**  
**KINESIOLOGY**

Total Duration : 3 Hours

Total Marks : 80

- Instructions :**
- 1) Use **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 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) Define Young's modulus
  - c) Differentiate Type-1 and Type-2 muscle fibre
  - d) Q angle
  - e) Write about Creep
  - f) open kinematic chain
  
2. Short answer question (any five out of six) : [5 × 7 = 35]
  - a) Discuss Arches of Foot.
  - b) ~~Discuss Dynamic Posture.~~ Explain Anatomical pulleys in hand complex in detail
  - c) Describe in brief Extensor mechanism of finger.
  - d) ~~Discuss Breathing mechanism.~~ Define Osteokinematics of Arthrokinematics with examples
  - e) Scapulo - Humeral Rhythm.
  - f) Define coxavara and coxavalga. Explain its effect on hip abductor muscle.

**SECTION - "B" (LAQ) (30 Marks)**

3. Long answer question (**any one** out of two) : [1 × 15 = 15]

- a) Discuss in detail kinetics and kinematics of cervical spine.
- b) Define Gait Describe gait variables and gait determinants in detail.

4. Long answer question (**any one** out of two) : [1 × 15 = 15]

- a) Discuss wrist complex in detail.
- b) ~~Define Scoliosis. Discuss in detail kinetic and kinematic analysis of posture.~~

Discuss Hip joint under  
kinematics & kinetics .  
□□□