Total Duration: Section A + B + C = 3 Hours

Section B & C Marks:

SECTION - B & SECTION - C

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 on the blank portion of the considered 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 Quastlen Paper is only meant to cove entire syllabus with: entire syllabus within the stipulated farme. The Question paper pattern is a mere and pattern is a mere guideline, Questions can be asked from any paper's syllabus in paper's syllabus into any qualities paper. Students cannot clain that the Question is that the Question is out of syllation, An it is only for the placeme sake, the distribution has born done
 - 7) Use a common answerbook for all additions.

SECTION II

- 2. Answer the following (any five out of six):
 - a) Definition of Kinetics and Kinematics.
 - b) Concave convex rule.
 - c) Examples of synarthrodial and dianthrolling
 - d) Types of muscle contraction.
 - e) Classification of muscles.
 - n Creep.
 - 3. Answer the following (any three out of four)
 - a) Define Active insufficiency and panilly each.
 - b) Stress-strain curve.
 - c) Basic principles of connective tishing
 - d) Composition of a muscle fiber

(30 Mar

(5×3:

(3)

waxample of

SECTION-C

- 4. Discuss Kinerics and Kinematics of galt in detail.
- 5 a) Discuss the kinematics of hip joint. Discuss the role of abductors in stability or joint. Describe odgs vars and dogs valge. (34)

....

- 5. b) Discuss the wrist joint under following heading.

 - b) Khematos of wrist and hand
 - c) role of intrinsic muscles

2-1

Second B.P.Th. (2012) Examination, Summer 2016 KINESIOLOGY

Duration Section A - B = 3 Hours

Total Market 80

SECTION - A & SECTION - B

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 - 7) Use a common answerbook for all Sections.

SECTION - A (SAQ)

(50 Marks)

Short answer question (any five out of six):

(5x3=15)

- a) Qangle.
 - Explain Length-Tension Relationship of muscle.
- c) Define the terms osteokinetics and arthokinematics.
- d) Enumerate classification of joints.
- e) Movements of thorax.
- f) Explain convex-concave rule.

Short answer question (any five out of six):

(5x7=35)

- a) Explain Lumbar pelvic rhythm.
- b) Describe factors affecting muscle function. Describe any two with an appropriate example
- c) Describe different types of grips and pinches of adult human hand.

- d) Explain stress-strain curve
- e) Describe the role of Popliteus muscle in knee joint.
- (i) Differentiate between type I and type II muscle libers.

SECTION - B

(3)

 $\Omega_{\rm M}$

- 3. Long answer question (any one out of two):
 - a) Enumerate Shoulder complex. Explain scapulo-humeral rhythm. Describe kine, and kinematics of glenohumeral joint.
 - b) Discuss factors affecting stability and mobility of Elbow joint. Write a note of Carrying Angle.
- 4. Long answer question (any one out of two) :

(1x1)

- a) Describe determinants of gait. Discuss kinetics and kinematics of normal human gait in stance phase.
- Describe the three different Lever Systems with appropriate example for each with respect to human body.



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.

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- 3) All questions are compulsory.
- 4) The number to the right indicates full marks.
- 5) Draw diagrams wherever necessary.
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- 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) 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):

 $(5 \times 7 = 35)$

- •a) Describe arthrokinematics by giving example.
 - b) Write a note on prehesile 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.



(3+4+4+4)

SECTION - B LAQ (30 Marks)

 $(1 \times 15 = 15)$ 3. Long answer question (any one out of two): 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) $(1 \times 15 = 15)$ 4. Long answer question (any one out of two): a) Describe kinetic and kinematics of ankle joint and write a note on arches (5+4+6)of foot. b) Describe the articular surfaces of elbow joint. Write the kinetics and kinematics of it.

Write a note on carrying angle.



Second EPTH(2012), Winter 2015 KINESIOLOGY

Total Duration | Section A + B = 3 Hours

Total Marks 80

Section - A & Section - B

Instructions:

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- 7) Use a common answerbook for all sections.

Section "A" SAQ (50 Marks)

1. Short answer question (any five out of six)

(5x3=15)

- a) Define motor unit
- (i) Morrent arm of force

Anatomical pulley

- Force velocity relationship
 - Stations av

Enumerate 3 funtions of synovial joints

Short enswer question (any five out of six)

(5x7=35)

- 3) Explain types of joints with appropriate examples
 - Stress strain curve
 - Types of muscle contraction
 - Classification of muscles
 - Explain active and passive insufficiency.
- Mobility and stability of muscles

Section "B" LAQ (30 Marks)

Long answer question (any one out of two)

(1x15-15)

Describe wrist joint blomechanics under following headings

Analomy

Chalcs

b) Define galf Describe the galf variables in details.

(5 Mks)

(5 Mks)

(5 Mks)

(1+7+7) P T O 4. Long answer question (any one out of two)

ng answer question (any one day).

Define Posture. Enumerate factors affecting posture. Analysis of standing Posture in the

a) Describe motor strategies to control posture.

Describe motor strategies of postural drainage. Describe the postural drainage lost indications and contraindications of postural drainage.

b) right and left lower lobes.

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Sm

Second B.P.Th. (2012) Examination, Winter 2016 KINESIOLOGY

Duration: Section A + B = 3 Hours

Total Marks: 80

SECTION - A and SECTION - B

instructions: 1) Use blue/black ball point pen only.

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- 7) Use a common answer book for all sections.

SECTION - A (SAQ) (50 Marks)

nort answer question (any five out of six):

 $(5 \times 3 = 15)$

- a) Name Ligaments of ankle joints.
- b) Note on Locking and unlocking of knee.
- c) Lumbo pelvic rhythm.
- d) Describe weight bearing structure of hip joint.
- e) Define step length and stride length.
- f) Enumerate Static stabilizers of glenohumeral joint,

- 2. Short answer question (any five out of six):
 - a) Concave Convex Rule and its application.
 - b) Note on different types of muscle contractions in detail.
 - c) Write note on active and passive insufficiency with examples.
 - d) Write an note on types of muscle fibres and their properties.
 - e) Classification of joints and write note on Osteokinematics of wrist joint.
 - 1) Deline Arthrokinematics and note on Gliding.

SECTION - B (LAQ) (30 Marks)

- Long answer question (any one out of two):
 - a) Write in brief biomechanics of knee joint. Describe in details the tibio le complex with mediciateral joint stability.
 - b) Describe in detail the functions of the ligaments of spinal column. Dex kinematics and kinetics of lumbar spine.
 - Long answer question (any one out of two) :
 - a) What are phases of normal gait cycle? Write note on gait determinants.
 - b) Write a note on Kinetics and kinematics of gait.



Second B.P.Th. (2012) Examination, Winter 2017 KINESIOLOGY

Total Duration: Section A + B = 3 Hours Total Marks: 80

SECTION - A and SECTION - B

Instructions:

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- 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) Anatomical pulley.
- b) Define shunt and spurt muscle.
- c) Define Motor unit. State size principle of motor unit recruitment.
- d) Define Close and Open kinematic chain and give one example of each.
- e) State concave convex rule with example.
- f) Define active insufficiency of muscles with example.

2. Short answer question (any five out of six):

 $(5 \times 7 = 35)$

- a) Describe kinetics and kinematics of sit to stand from a chair without armrest.
- b) Enlist the movements at temporomendibular joint. Explain the kinematics and kinetics of opening and closing of mouth.
- c) Describe Nutation and Counternutation. Write function of pelvic floor muscles.
- d) If a person has left painful hip in which hand he should hold the cane. Explain the reason for your answer.
- e) Define carrying angle. Explain the muscle work during push up.
- f) Describe archs of foot and explain it's function.



SECTION - B LAQ (30 Marks)

- 3. Long answer question (any one out of two): (1×15=15)
 - a) Define Gait cycle. Describe determinants of gait. Describe the kinetics and kinematics of gait in sagital plane. (2+5+8)
 - b) Describe Q angle along with its importance. Describe kinetics and kinematics of tibiofemoral joint. (5+5+5)
- 4. Long answer question (any one out of two): (1×15=15)
 - a) Describe kinetics and kinematics of glenohumeral joint. Explain scapulohumeral rhythm. (6+6+3)
 - b) Describe the kinetics and kinematics of thoracic spine. Write the importance of intervertebral disc. (5+5+5)

(FERRISA ESTROPEDADO TIDADESE

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