

DCN-M201919

Seat No.

Second Year B. P. T. Examination

July - 2022

Kinesiology

Time: 3 Hours [Total Marks: 80

SECTION-1

- 1 Answer in detail any one.10(a) Name the different phases of gait cycle. Explain the
 - (b) Describe the factors responsible for the postural stability of spinal column.

kinematics of swing phase in detail.

2 Write short notes on any three.

15

- (a) Anterior and posterior pelvic tilt
- (b) Locking mechanism of knee joint
- (c) Glenohumeral rhythm
- (d) Kyphosis
- 3 Answer in brief any 5.

15

- (a) Mention the arthrokinematics of glenohumeral joint during External rotation
- (b) Give an example of movement that requires eccentric contraction of muscles.
- (c) Give four examples of synarthrosis type of joint
- (d) Name the ligaments around elbow joint.
- (e) Give two examples of class 3 lever in human body.
- (f) Name the components and function of extensor hood in fingers.

SECTION - 2

4	Write in detail : (any one)		10
	(a)	Discuss the muscle work in sit-to-stand activity.	
	(b)	What is active and passive insufficiency? Explain with proper examples.	
5	Write short notes on any three.		15
	(a)	Movement of ribcage during breathing.	
	(b)	Active and passive stabilisers of shoulder joint	
	(c)	What is the effect of quadriceps weakness on the biomechanics of knee joint?	
	(d)	What is femoral retroversion? How does it affect the lower limb alignment?	
6	Answer in brief any five.		15
	(a)	Name the ligaments around elbow joint.	
	(b)	Name the carpal bones.	
	(c)	What is equinus gait?	
	(d)	Explain the correct lifting technique for a person with low back pain when he wants to lift weight off the floor.	
	(e)	What is tenodesis?	
	(f)	Give at least two examples of pulley in human body.	