

Roll No.:

THEORY SPECIAL SUPPLEMENTARY/RE-APPEAR EXAMINATION NOV-2021

Program:	MPT(Sports / Ortho)	Year/Semester:	1ST Semester
Course/Subject:	Review of Basic Biomechanics	Duration:	03:00 Hrs
Course/Subject Code:	03070104/ 03110105	Maximum Marks:	60
		Batch:	2018 / 2019

Instructions: -

1. Write Your Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. All Questions are compulsory. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

SECTION-A

(Very Short Answer Type Questions)

Note: All Questions are compulsory: -

[12X1=12 Marks]

S. No.	Question	Marks Allotted
1	cog	1
2	frictional force	1
3	Lever	1
4	Isokinetic device	1
5	Creep	1
6	synarthrosis	1
7	modulus of rigidity	1
8	Types of displacement	1
9	motor endplate	1
10	define power	1
11	tensile force	1
12	fluid-film lubrication	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8]

S. No.	Question	Marks Allotted
13	Poisson's effect	2
14	discuss about sarcomere	2
15	passive insufficiency	2
16	EMG	2

SECTION-C
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[4X10=40]

S. No.	Question	Marks Allotted
17	Discuss IN Detail about the stress strain curve.	10
18	Discuss the ultrastructure of muscle and detailed mechanism of contraction. OR Address various types of photo optical devices and its use.	10
19	Define joint. Discuss in detail about the biomechanical classification of joints.	10
20	Discuss in detail about types, location, direction, magnitude and rate of displacement	10