

Registration No:

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Total Number of Pages: 01

Course: MPT

SUBJECT NAME: PT in speciality area (Biomechanics)

SUB_CODE: 23MPT1B1

(1st Year MPT) Examination: Regular 2024-25 & Supplementary 2023-24 (Admitted Batch)

BRANCH: Allied Science MPT

Q. CODE: A342

Max Time: 3 Hours

Max Marks: 80

Sitting: 1st, 10.00 AM to 1.00 PM

Any Question having parts should be answered as whole at one place only.

Illustrate answer with diagrams wherever relevant / required if any)

Long Answer questions (any four out of six)

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- Q 1 Elaborate the biomechanics of the patello-femoral joint in humans. (1 x 15 Marks)
- Q 2 Describe the biomechanics during "sit to stand" activity in humans. (1 x 15 Marks)
- Q 3 Describe Nerve Conduction Velocity, the method & its need in Physiotherapy practice. (1 x 15 Marks)
- Q 4 Describe the functional anatomy related to a human skeletal muscle (1 x 15 Marks)
- Q 5 Write about the role of sensory system in relation to Balance mechanism in humans. (1 x 15 Marks)
- Q 6 Describe the Gait determinants in Humans. (1 x 15 Marks)
- Q 7 Short answer questions (any five out of eight) (5 x 4 Marks)
- a) Chronaxie
 - b) Application of levers in exercise therapy.
 - c) Footwear for anesthetic feet
 - d) SACH foot
 - e) Opponens splint
 - f) Residual volume
 - g) "H" reflex
 - h) Functional consequences of "pes planus" in adults.
