

Question Paper

Exam Date & Time: 23-Nov-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER MPT (PART - I) TECHNOLOGY DEGREE EXAMINATION - NOVEMBER 2021
SUBJECT: FOUNDATIONS OF SPECIALTY: MUSCULOSKELETAL SCIENCES (MPT 602.3)
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain peripheral and central pain mechanisms. Describe the theories of pain modulation. (25)
(5+5+15 = 25 marks)
- 2) Explain the kinematics of gait cycle. (25)
(10+15 = 25 marks)
- 3) Explain the possible pathomechanics responsible for shoulder impingement syndrome. (25)
- 4A) Write a short note on principles of strength training. (5)
- 4B) Write briefly on functional progression following a lower limb injury. (5)
- 4C) Write a short note on medico-legal issues in musculoskeletal physiotherapy. (5)
- 4D) Briefly describe the sensory re-education program. (5)
- 4E) Briefly explain the adaptations of cardiorespiratory systems to aerobic exercise. (5)

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