

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 3902**

**(OCTOBER 2020 EXAM SESSION)**

**POST GRADUATE DIPLOMA IN BIOMECHANICS AND KINESIOLOGY IN SPORTS AND FITNESS**

**(From 2018-2019 onwards)**

**PAPER II – KINESIOLOGY**

***Q.P. Code : 363902***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Describe in detail about the articulating structure, kinematics of tibiofemoral joint and related pathomechanics.
2. Discuss the normal posture and explain the various postural abnormalities.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Intrinsic muscles of hand.
2. Movements of cervical spine & add a note on atlanto axial movement.
3. Foot drop gait versus Equinus gait.
4. Muscular control of Temporomandibular joint.
5. Ligaments of the ankle joint.
6. Lumbar pelvic rhythm.
7. Describe the role of sternoclavicular joint in shoulder movements.
8. Dynamic stability of shoulder joint.
9. Determinants of gait.
10. Types of muscle action.

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