

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

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 6277**

**BPT DEGREE EXAMINATION  
SECOND YEAR**

**(New regulations for the candidates admitted from 2017-2018 onwards)**

**PAPER II – BIO-MECHANICS, APPLIED ANATOMY & KINESIOLOGY**

***Q.P. Code : 746277***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the details of static and dynamic stabilization of Shoulder joint.
2. Explain the structure of configuration of Knee joint with factors contributing for its stability.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Stress and Strain.
2. Corocoacromial arch.
3. Muscles contribution to the arches.
4. Pelvic tilt.
5. Screw home mechanism.
6. Anatomical Pulleys.
7. Ideal posture.
8. Physiological valgus at knee.
9. Young Modulus.
10. 'T' tubules.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Ovoid joint.
2. Alar ligament.
3. Patella alta & baja.
4. Power grip.
5. Index plus foot & index minus foot.
6. Angle of wiberg.
7. Hallux rigidus.
8. Cross eyed patella.
9. Potential energy.
10. Chondrocytes.

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