

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

(MCH 0822)

AUGUST 2022

Sub. Code: 1851

M.Ch. – VASCULAR SURGERY

Paper I – BASIC SCIENCES AS APPLIED TO VASCULAR SURGERY

Q.P. Code: 181851

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Embryological development of lower limb arteries and discuss about persistent sciatic artery.
2. Anatomy and various functions of endothelium and discuss about endothelial dysfunction.

II. Write notes on:

(10 x 7 = 70)

1. Shear stress.
2. Thrombotic complications of Atherosclerosis.
3. Healing response of the prosthetic grafts and its complications.
4. Pre operative cardiac risk assessment.
5. Pathophysiology of renovascular hypertension.
6. Pathophysiological effects of arteriovenous fistula.
7. Biomechanics of foot.
8. Elastography.
9. Blood supply of spinal cord and its collaterals.
10. Calf muscle pump.
