PERIPHERAL VASCULAR SURGERY
PAPER – I

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss embryology, diagnosis, evaluation and management of persistent sciatic artery. (4+2+2+2)

2. Enumerate the Hamburg classification of vascular malformations. Discuss the clinical presentation, evaluation and management of arteriovenous malformation of the lower limb. (2+2+3+3)

3. Discuss the role of endothelium as an organ and various theories of atherogenesis. (3+7)

4. Discuss the etiology, clinical features, diagnosis and management of mycotic infra renal aortic aneurysm. (2+2+3+3)

5. Discuss immediate and long term complications of central venous catheters. (5+5)

6. Describe coagulation cascade and mention common thrombophilia states with relevance to the same. (7+3)

7. Discuss:
   (a) Principles of color Doppler imaging
   (b) Duplex velocity spectral wave form in arterial stenosis. (5+5)

8. Discuss epidemiology, pathogenesis and clinical presentations of superficial venous thrombosis. What is its association with DVT and management? (2+2+2+2+2)

9. Discuss the pattern of leg vascular steno-occlusive disease in diabetic patients. Discuss factors that determine healing of diabetic ulcers. (5+5)

10. Write short notes on:
    (a) Primary lymphoedema.
    (b) Prostaglandin therapy in critical limb ischemia. (5+5)
PERIPHERAL VASCULAR SURGERY

PAPER – II

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss the etiopathogenesis of post thrombotic syndrome, pathophysiology of venous ulcer and its management. (3+3+4)

2. Discuss diagnosis, evaluation and management of popliteal artery injury following knee dislocation. (2+3+5)

3. Write short notes on.
(a) Over the wire balloon thrombectomy. (5+5)
(b) Laser Atherectomy.

4. Discuss evaluation and management of the failing arteriovenous access graft for hemodialysis. (5+5)

5. A 72 year male presents with post prandial abdominal pain and 10kg weight loss over 3 months. Discuss differential diagnosis, evaluation and vascular management. (2+3+5)

6. Describe IVC filters, indications for use, types, techniques & complications of filter insertion. (2+3+2+3)

7. Define Raynold's phenomenon and discuss its medical management. (3+7)

8. Discuss etiology, evaluation and management of heparin induced thrombocytopenia in the vascular patient. (2+4+4)

9. Discuss the pathogenesis and management of fibromuscular dysplasia. (6+4)

10. Discuss etiology, diagnostic evaluation and management of superior vena cava syndrome. (3+3+4)
PERIPHERAL VASCULAR SURGERY
PAPER – III

1. Discuss comprehensive smoking cessation intervention and nicotine replacement therapy. (5+5)

2. Discuss the role of the following imaging modalities in vascular disease:
   a)Computed tomography angiography.
   b)Magnetic resonance angiography.
   c)PET and SPECT scans. (3+3+4)

3. Percutaneous closure devices. (10)

4. Discuss current status of stem cell therapy for Critical Limb Ischemia. (10)

5. Write short notes:
   a)Mechano-chemical ablation of veins.
   b)Robotic assisted aortic surgery. (5+5)

6. a) Discuss determination of level of amputation of lower extremity in diabetic patients.
   b) Trace the ‘Fate of limb & life’ of diabetic after amputation. (6+4)

7. Discuss management modalities of complex aortic arch aneurysms. (10)

8. Short notes on:
   a) Drug eluting stents in peripheral vasculature.
   b) Chimney and periscope stent grafts. (5+5)

9. Describe the characteristics, pathogenesis and diagnostic evaluation of complex regional pain syndrome. (3+3+4)

10. Discuss in detail the pre-operative management, operative steps and post-operative management of a patient scheduled for carotid endarterectomy. (3+4+3)