

PERIPHERAL VASCULAR SURGERY

PAPER – I

Time : 3 hours
Max. Marks : 100

PVS/D/12/33/I

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: (5+5)
(a) Principles of color Doppler imaging
(b) Duplex velocity spectral wave form in arterial stenosis.
8. Discuss epidemiology, pathogenesis and clinical presentations of superficial venous thrombosis. (2+2+2+2+2)
What is its association with DVT and management?
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: (5+5)
(a) Primary lymphoedema.
(b) Prostaglandin therapy in critical limb ischemia.

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PAPER – II

Time : 3 hours
Max. Marks : 100

PVS/D/12/33/II

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. (5+5)
(a) Over the wire balloon thrombectomy.
(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

Time : 3 hours
Max. Marks : 100

PVS/D/12/33/III

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

1. Discuss comprehensive smoking cessation intervention and nicotine replacement therapy. (5+5)
2. Discuss the role of the following imaging modalities in vascular disease: (3+3+4)
 - a) Computed tomography angiography.
 - b) Magnetic resonance angiography.
 - c) PET and SPECT scans.
3. Percutaneous closure devices. (10)
4. Discuss current status of stem cell therapy for Critical Limb Ischemia. (10)
5. Write short notes: (5+5)
 - a) Mechano-chemical ablation of veins.
 - b) Robotic assisted aortic surgery.
6. a) Discuss determination of level of amputation of lower extremity in diabetic patients. (6+4)
b) Trace the 'Fate of limb & life' of diabetic after amputation.
7. Discuss management modalities of complex aortic arch aneurysms. (10)
8. Short notes on: (5+5)
 - a) Drug eluting stents in peripheral vasculature.
 - b) Chimney and periscope stent grafts.
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)
