Write short notes on:

1. a. What is intermittent claudication?
   b. Describe the natural history of claudicants.
   c. Differentiate between venous, arterial and neurogenic claudication.

2. a. What is 'vulnerable plaque'?
   b. Describe its natural history and complications.
   c. How will you treat it?

3. a. What is 'interval hyperplasia'?
   b. Describe the stages.

4. a. Classify new anticoagulants.
   b. Describe monitoring protocols.
   c. What are the advantages of new therapies over conventional therapies?

5. a. What are the indications for vein mapping?
   b. Describe the techniques and fallacies.

6. a. Describe the etiopathology of extremity compartment syndrome.
   b. How will you evaluate and treat such a case?

7. a. Describe with illustration the blood supply to the spinal cord.
   b. What is its surgical relevance with reference to management of aortic disease?

8. a. Ambulatory venous hypertension—etiopathophysiology.
   b. Describe CEAP classification for chronic venous diseases.

9. a. Define negative pressure wound therapy.
   b. What is the mechanism of action?
   c. Discuss indications and results.

10. a. Discuss the principles of intravascular ultrasound imaging.
    b. Enumerate its clinical application.

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Write short notes on:-

1. a. Discuss the management options in non reconstructable critical limb ischemia in a 45 years old male with infra inguinal disease.
   b. What are their results?

2. Discuss the diagnosis, evaluation and management of acute thoracic aortic dissection (Type B).

3. What is subclavian steal syndrome? Describe the clinical features and its management.

4. a. How would you assess and stratify cardiac risk in a patient undergoing major open vascular surgical procedure?
   b. Describe measures to reduce peri-operative cardiac morbidity and mortality.

5. Discuss clinical features, investigative work up and treatment options in a case of acute iliofemoral deep vein thrombosis.

6. Discuss etiology, evaluation and management of popliteal artery entrapment syndrome.

7. a. Enumerate the various multi-centric trials for carotid artery stenosis.
   b. Describe their results with relevance to management.

8. Discuss arterial ‘STEAL’ following AV access surgery – prevention, evaluation and management.

9. Discuss the diagnosis and management of aorto-bifemoral graft infections.

10. Discuss the etiopathology and management of reperfusion syndrome of lower extremity.

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Write short notes on:-

1. Discuss endovascular management for infra popliteal arterial disease – options, tools and results.  
   4+4+2

2. a. Endovascular operating suite.  
   b. Mechanical clot removing endoluminal devices.  
   5

3. Enumerate endovascular ablative therapies for varicose veins. Discuss their advantages and disadvantages over conventional varicose veins surgical procedures.  
   5+5

4. a. Define tissue engineering and gene therapy.  
   b. Discuss various modalities and current trends.  
   3

5. a. Enumerate the complications of percutaneous femoral access.  
   b. Discuss management options for post angio access femoral artery pseudoaneurysm.  
   4

6. Discuss thrombolytic therapy in acute lower limb ischemia. Enumerate the contraindications and complications.  
   6+4

7. Discuss principles of preoperative therapeutic embolisation, various agents and indications for use.  
   3+3+4

8. a. Drug eluting balloons in infrainguinal angioplasty.  
   b. Peripheral vascular stents.  
   5

   3+4+3

10. Outline the evaluation and treatment of extra cranial carotid arterial injuries.  
    5+5

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