

PERIPHERAL VASCULAR SURGERY

PAPER- I

Time : 3 hours

PVS/D/11/33/I

Max. Marks : 100

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

Write short notes on:

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| 1. | a. What is intermittent claudication? | 2 |
| | b. Describe the natural history of claudicants. | 4 |
| | c. Differentiate between venous, arterial and neurogenic claudication. | 4 |
| 2. | a. What is 'vulnerable plaque'? | 2 |
| | b. Describe its natural history and complications. | 5 |
| | c. How will you treat it? | 3 |
| 3. | a. What is 'interval hyperplasia'? | 2 |
| | b. Describe the stages. | 3 |
| | c. Healing response of prosthetic vascular graft. | 5 |
| 4. | a. Classify new anticoagulants. | 4 |
| | b. Describe monitoring protocols. | 3 |
| | c. What are the advantages of new therapies over conventional therapies? | 3 |
| 5. | a. What are the indications for vein mapping? | 5 |
| | b. Describe the techniques and fallacies. | 5 |
| 6. | a. Describe the etiopathology of extremity compartment syndrome. | 4 |
| | b. How will you evaluate and treat such a case? | 3+3 |
| 7. | a. Describe with illustration the blood supply to the spinal cord. | 7 |
| | b. What is its surgical relevance with reference to management of aortic disease? | 3 |
| 8. | a. Ambulatory venous hypertension—etiopathophysiology. | 6 |
| | b. Describe CEAP classification for chronic venous diseases. | 4 |
| 9. | a. Define negative pressure wound therapy. | 2 |
| | b. What is the mechanism of action? | 3 |
| | c. Discuss indications and results. | 5 |
| 10. | a. Discuss the principles of intravascular ultrasound imaging. | 5 |
| | b. Enumerate its clinical application. | 5 |

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PAPER- II

Time : 3 hours
Max. Marks : 100

PVS/D/11/33/II

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

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. 7
b. What are their results? 3
2. Discuss the diagnosis, evaluation and management of acute thoracic aortic dissection (Type B). 3+3+4
3. What is subclavian steal syndrome? Describe the clinical features and its management. 2+4+4
4. a. How would you assess and stratify cardiac risk in a patient undergoing major open vascular surgical procedure? 5
b. Describe measures to reduce peri-operative cardiac morbidity and mortality. 5
5. Discuss clinical features, investigative work up and treatment options in a case of acute iliofemoral deep vein thrombosis. 3+3+4
6. Discuss etiology, evaluation and management of popliteal artery entrapment syndrome. 4+3+3
7. a. Enumerate the various multi-centric trials for carotid artery stenosis. 4
b. Describe their results with relevance to management. 6
8. Discuss arterial 'STEAL' following AV access surgery – prevention, evaluation and management. 3+3+4
9. Discuss the diagnosis and management of aorto-bifemoral graft infections. 5+5
10. Discuss the etiopathology and management of reperfusion syndrome of lower extremity. 6+4

PERIPHERAL VASCULAR SURGERY

PAPER- III

Time : 3 hours
Max. Marks : 100

PVS/D/11/33/III

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

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. 5
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. 3
b. Discuss various modalities and current trends. 7
5. a. Enumerate the complications of percutaneous femoral access. 4
b. Discuss management options for post angio access femoral artery pseudoaneurysm. 6
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. 5
b. Peripheral vascular stents. 5
9. Endovascular management of complex thoracoabdominal aortic aneurysms – indications, options and results. 3+4+3
10. Outline the evaluation and treatment of extra cranial carotid arterial injuries. 5+5
