

**PERIPHERAL VASCULAR SURGERY**

PAPER – I

PVS/D/15/33/I

Time : 3 hours

Max. Marks : 100

**Important instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

**Write short notes on:**

1.	a) Draw a labeled diagram of the surgical anatomy of the thoracic outlet. b) Mention two unique features of the anatomy of the above region.	8 2
2.	a) Collateral circulation around the elbow with labeled diagram(s). b) Mention two anomalies related to brachial artery anatomy in the above region.	8 2
3.	Mechanism of formation of neointimal hyperplasia and how the same can be prevented/delayed by surgical and medical means.	6+4
4.	Mechanism of action of prostaglandins in peripheral arterial ischaemia. Mention indications of its use and precautions when used.	5+(2+3)
5.	(a) Smoking and its association with peripheral arterial disease. (b) What are the advantages of smoking cessation and when do the benefits start?	6+(3+1)
6.	Mention test(s) you would do to assess the action (therapeutic) for – Warfarin, Enoxaparine, Fondaparinux, Rivaroxaban and unfractionated heparin. Mention the timing of collection of the blood sample in relation to the dosing cycle of each of the drugs.	2x5
7.	What investigations would you perform in a critically ischaemic diabetic foot in a vascular lab to assess adequacy of foot perfusion? Discuss advantages of the pressure measurement in such a case and why.	7+3
8.	Advantages and disadvantages of conducting a: a) Randomised control trial. b) Case control study.	5 5
9.	a) Draw a diagram to depict sites of non-thrombotic iliac vein lesion(s) (NIVL). b) Discuss the advantages and disadvantages of intravenous ultrasound (IVUS).	5 5
10.	a) Mention the ideal properties of a vascular graft. b) What are the qualities of an ideal vein graft and its advantages over a synthetic graft?	4 6

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