

**VASCULAR SURGERY**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

VS/J/20/33/I

**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) Life cycle of human atherosclerotic plaques. 5+5  
b) Thrombotic complications of atherosclerosis and vulnerable lesions.
2. a) Enumerate the causes of arterial compression syndromes. 5+5  
b) Median arcuate ligament syndrome.
3. a) Biological effects of smoking on vascular system. 5+5  
b) Nicotine and non-nicotine therapy for smoking.
4. a) Classification of lymphoedema and clinical staging of chronic lymphoedema. 5+5  
b) Pathophysiology of peripheral lymphoedema with its sequelae.
5. a) Biological effects of radiation. 5+5  
b) Radiation safety in endovascular procedures.
6. a) Contrast induced nephropathy. 5+5  
b) Carbon dioxide angiography.
7. a) Cardiac risk indices. 5+5  
b) Enumerate non-invasive cardiac stress tests.
8. a) IVC anomalies. 4+3+3  
b) Indications for IVC filter.  
c) Merits and demerits of commercially available IVC filters.
9. a) Indications for thrombolysis. 3+2+2+3  
b) Catheters for thrombolysis.  
c) Complications of thrombolysis.  
d) Monitoring during thrombolysis.
- 10 a) Haemodynamic changes after creation of arterio-venous fistula. 5 + 5  
b) How do you manage a case of venous hypertension?

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