

Vascular Practice Exam 2025

Sat 23 Aug 2025

EXAM MAIN SESSION

Sat 23 Aug 2025

Duration of the Session: 180 minutes

Session Description

Exam Main Session Description

4

EXAM SECTION

Type X

Χ

Question No:1

Maximum Marks

Question Title

AAA & duplex

Question Description

AAA & duplex evaluation

In relation to abdominal aortic aneurysms and duplex ultrasonography:

Α	\circ	True	\circ	False	An aorta of 3cm should have 6 monthly duplex surveillance
В	0	True	0	False	A linear transducer probe is routinely utilised to assess the abdominal aorta
С	0	True	0	False	A higher frequency transducer probe is helpful in evaluating aortic diameters due to increased penetration
D	0	True	0	False	Localised liquefaction of aortic aneurysm thrombus can be confused with aortic aneurysm wall dissection

Maximum Marks

4

Question Title

Platelets play an important role in initiating wound healing by

Question Description

Choose the correct answer

Platelets

Platelets play an important role in initiating wound healing by

Α	0	True	0	False	the release of cytokines from dense granules within platelets
В	0	True	0	False	releasing serotonin
С	0	True	0	False	inhibiting the binding of fibrinogen to the GP IIb/IIIa receptor
D	0	True	0	False	platelet adherence to exposed matrix via integrins that bind to collagen and laminin in damaged tissue

Maximum Marks

Question Title

MMPs & ECM

Question Description

Matrix metalloproteinases and ECM

In relation to matrix metalloproteinases (MMPs) & remodelling of connective tissue

Choose	the	correct	answer
--------	-----	---------	--------

Α	0	True	0	False	MMPs do not need be activated by proteases at site of injury
В	0	True	0	False	MMPs are not produced by fibroblasts
С	0	True	0	False	Zinc contributes to MMP activity and subsequently to wound healing
D	0	True	0	False	MMPs synthesis and secretion is regulated by growth factors and cytokines

Maximum Marks

Question Title

At the time of removal of sutures one week following incision and suturing during a 'clean' surgical operation, the wound would be expected to

Question Description

Healing

At the time of removal of sutures one week following incision and suturing during a 'clean' surgical operation, the wound would be expected to

A	0	True	0	False	show persisting granulation tissue
В	0	True	0	False	have regained 70-80% of normal skin strength
С	0	True	0	False	show predominant synthesis of type IV collagen
D	0	True	0	False	show a predominance of macrophages rather than neutrophils

Maximum Marks

1

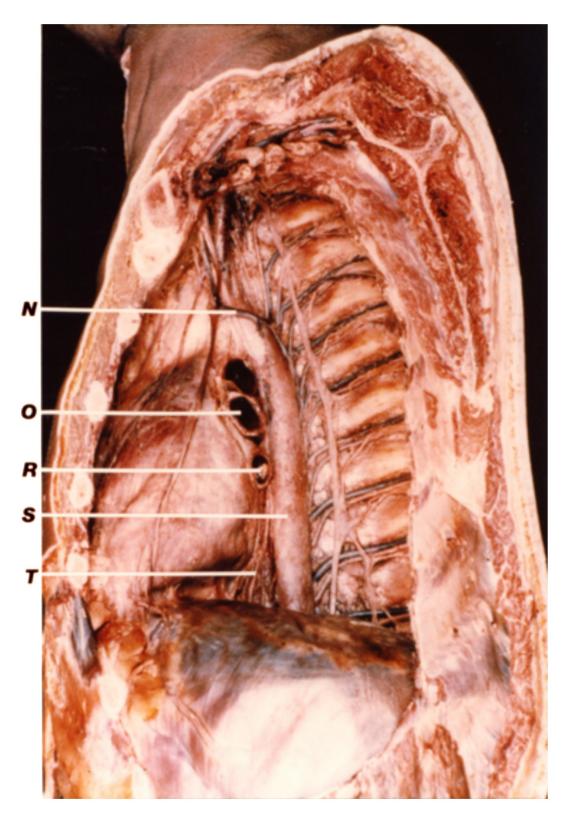
Question Title

The structure labelled S

Question Description

Aorta

The structure labelled S



Choose the correct answer

A O True O False descends anterolateral to the vertebral column

B O True O False has the azygos vein lying between it and the thoracic duct

C O True O False supplies posterior intercostal branches to all the intercostal spaces

D O True O False gives origin to the bronchial arteries

Maximum Marks

Question Title

The radial artery

Question Description

Radial artery

The radial artery

Choose	tha	correct	anewer
CHOOSE	1111	(:())((=(:)	answer

Α	0	True	0	False	passes deep to the tendon of pronator teres in the mid forearm
В	0	True	0	False	contributes anterior and posterior carpal branches to form carpal arches
С	0	True	0	False	gives rise to the common interosseous artery
D	0	True	0	False	lies medial to the superficial radial nerve in the mid forearm

Maximum Marks

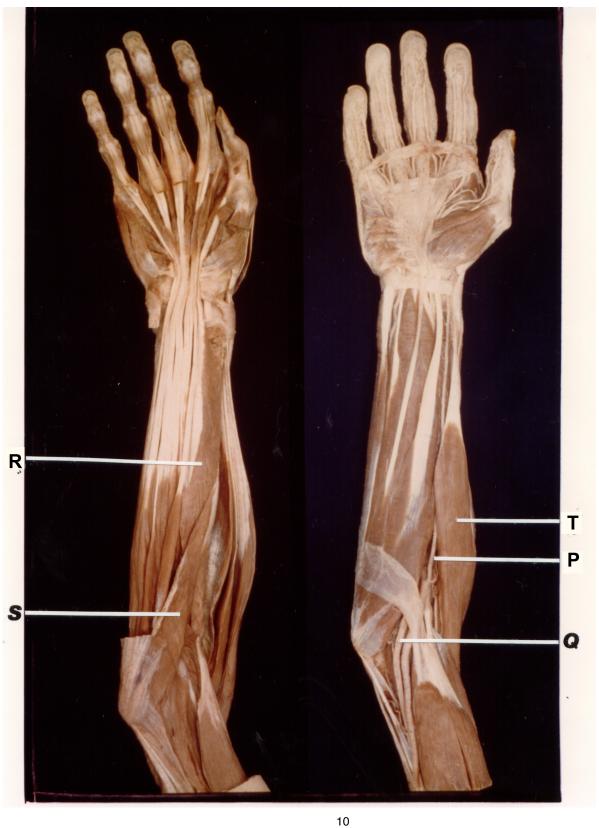
Question Title

The vessel marked 'P'

Question Description

Radial artery

The vessel marked 'P'



Α	0	True	\circ	False	passes deep to the deep head of pronator teres muscle
В	0	True	0	False	contributes recurrent vessels which usually anastomose with branches of the profunda brachii
С	0	True	0	False	gives rise to the common interosseous artery
D	0	True	\bigcirc	False	lies beneath the medial border of brachioradialis in the mid forearm

Maximum Marks

Question Title

The cephalic vein

Question Description

Cephalic vein

The cephalic vein

Choose	tha	correct	anewer
CHOOSE	1111	(:())((=(:)	answer

A	0	True	0	False	in the distal arm, lies medial to the muscle belly of biceps
В	0	True	0	False	in the forearm, runs in the superficial fascia along the pre-axial border of the limb
С	0	True	0	False	in the proximal arm, lies lateral to the biceps in the delto-pectoral groove
D	\bigcirc	True	\circ	False	ends by joining the subclavian vein

Maximum Marks

Question Title

In laminar flow

Question Description

Laminar flow

In laminar flow

		_	
Chane	a tha	correct	anewor

Α	0	True	0	False	flow is above the critical velocity of Reynold's number
В	0	True	0	False	fluid elements in one lamina remain in that streamline as fluid progresses along the tube
С	0	True	0	False	Flowing blood creates shear stress on the endothelium wall which is inversely proportional to viscosity
D	0	True	0	False	the velocity profile is parabolic

Vascular Practice Exam 2025

Candidate Number -

Question No:10 Maximum Marks 4

Question Title

Thromboangiitis obliterans (Buerger's disease)

Question Description

Thromboangiitis obliterans (Buerger's disease)

Thromboangiitis obliterans (Buerger's disease)

Choose	the	correct	answer
--------	-----	---------	--------

Α	0	True	0	False	Results in inflammation in arteries and veins and the vasa nervorum
В	0	True	0	False	commonly involves visceral vessels
С	0	True	0	False	is characterised by neutrophilic inflammation
D	0	True	0	False	occurs predominantly in old age

Maximum Marks

4

Question Title

Polyarteritis Nodosa

Question Description

Poly arteritis Nodosum

PAN (Polyarteritis Nodosum)

A	0	True	0	False	is an ANCA negative vasculitis affecting large arteries
В	0	True	0	False	is associated with the development of multiple visceral aneurysms
С	0	True	0	False	Is more common in women
D	0	True	0	False	is associated with Hepatitis B infection in the majority of cases

Maximum Marks

4

Question Title

Recognized risk factors for abdominal aortic aneurysm include

Question Description

Aortic aneurysm risk factors

Recognized risk factors for abdominal aortic aneurysm include

Choose the correct answer

Α	0	True	0	False	Cigarette Smoking
В	0	True	0	False	Increasing age
С	0	True	0	False	Obesity

D O True O False Diabetes Mellitus

Maximum Marks

4

Question Title

The vertebral artery

Question Description

Vertebral artery

The vertebral artery

Α	\circ	True	0	False	enters a foramen in the transverse process of the seventh cervical vertebra
В	0	True	0	False	terminates at the level of the foramen magnum by joining the artery of the opposite side
С	0	True	0	False	terminates as the posterior cerebral artery
D	0	True	0	False	at the level of the lateral mass of the atlas, turns posteriorly, then medially, behind the atlanto-occipital joint

Maximum Marks

Question Title

The stochastic effects of radiation exposure

Question Description

Radiation Physics and Safety

The stochastic effects of radiation exposure

Choose	the	correct	answer
--------	-----	---------	--------

Α	0	True	0	False	Are less predictable
В	0	True	0	False	Has no threshold dose
С	0	True	0	False	Does not overwhelm an individual's ability to repair DNA damage
D	0	True	0	False	Are more susceptible to tissues that have rapid turnover such as bone marrow and breast tissue, than more quiescent tissues

Maximum Marks

Question Title

The following factors usually increase radiation dose to the patient

Question Description

Radiation exposure

The following factors usually increase radiation dose to the patient

Ch	Choose the correct answer				
Α	0	True	0	False	increasing tube voltage (kV)
В	0	True	0	False	increasing size of the patient
С	0	True	0	False	image magnification
D	0	True	0	False	increasing distance of patient from X-ray source

Vascular Practice Exam 2025

Question No:16

Maximum Marks

s 4

Question Title

The following ultrasound criteria can be used to quantify degree of carotid stenosis

Question Description

Carotid stenosis

The following ultrasound criteria can be used to quantify degree of carotid stenosis

Ch	Choose the correct answer				
Α	0	True	0	False	colour filling of the lumen
В	0	True	0	False	flow acceleration
С	0	True	0	False	peak-systolic velocity
D	0	True	0	False	End-diastolic velocity

Maximum Marks

4

Question Title

Computed tomography (CT) Hounsfield units

Question Description

Hounsfield units

Computed tomography (CT) Hounsfield units

Choose t	the correct	t answer
----------	-------------	----------

A	0	True	0	False	represent X-ray attenuation
В	0	True	\circ	False	Dense bone has a Hounsfield unit value lower than water
С	0	True	0	False	are expressed relative to air
D	0	True	0	False	vary depending on the tissue

Maximum Marks

Question Title

The internal iliac artery

Question Description

Internal iliac artery

The internal iliac artery

Choose the	correct	answer
------------	---------	--------

Α	\circ	True	\circ	False	divides into a small anterior and large posterior division
В	0	True	0	False	has a posterior division that divides into parietal branches only
С	0	True	0	False	has the internal pudendal and superior gluteal arteries as terminal branches of its anterior division
D	0	True	0	False	has a superior vesical branch continuing as the obliterated umbilical artery

4

Question No:19

Maximum Marks

Question Title

The external iliac artery

Question Description

External iliac artery

The external iliac artery

Α	0	True	0	False	passes beneath the midpoint of the inguinal ligament to become the common femoral artery
В	0	True	0	False	gives off the inferior epigastric artery that supplies the rectus abdominis muscle
С	0	True	0	False	passes along the pelvic brim on the psoas major muscle to reach the inguinal ligament
D	0	True	0	False	gives off the superficial circumflex iliac artery, which anastomoses with branches of the iliolumbar and superior gluteal arteries

Maximum Marks

Question Title

Lymphoedema

Question Description

Lymphoedema general questions

In relation to lymphoedema

Α	0	True	0	False	Kaposi-Stemmer sign is pathognomic for lymphoedema
В	0	True	0	False	Chronic lymphoedema is not a risk factor for skin malignancy
С	0	True	0	False	Lymphoedema praecox onset is usually around puberty
D	0	True	0	False	Lympho-scintography is current gold standard investigation for detecting if chronic oedema may be due to lymphatic failure

Maximum Marks

4

Question Title

The following vessels contribute to the cruciate anastomosis

Question Description

Cruciate anastomosis

The following vessels contribute to the cruciate anastomosis

Ch	Choose the correct answer						
Α	0	True	0	False	decending branch of inferior gluteal artery		
В	0	True	0	False	ascending branch of first perforating artery		
С	0	True	0	False	transverse branch of the medial femoral circumflex artery		
D	0	True	0	False	ascending branch of the lateral femoral circumflex artery		

Maximum Marks

4

Question Title

The great saphenous vein

Question Description

Great saphenous vein

The great saphenous vein

A	0	True	0	False	begins as an upward continuation of the medial marginal vein of the foot
В	0	True	0	False	receives up to 3 tributaries before joining the common femoral vein at the saphenofemoral junction
С	0	True	0	False	has more valves below the knee than above the knee
D	\circ	True	\circ	False	In the calf, it gives no perforating branches to the deep venous system

Maximum Marks

Question Title

Physiological features of septic shock include

Question Description

Septic shock

Physiological features of septic shock include

Α	\circ	True	\circ	False	widespread vasodilation
В	0	True	0	False	reduced cardiac output
С	0	True	0	False	increased capillary permeability
D	\bigcirc	True	\bigcirc	Falsa	increased cellular metabolism

Maximum Marks

4

Question Title

The ascending pharyngeal artery

Question Description

Ascending pharyngeal artery

The ascending pharyngeal artery

Α	0	True	0	False	supplies the meninges
В	0	True	0	False	lies deep to the internal carotid artery
С	0	True	0	False	is a branch of the external carotid artery
D	0	True	0	False	lies deep to the prevertebral fascia

Maximum Marks

Question Title

Immune induced reactions to Heparin include

Question Description

Heparin immune reaction

Immune-induced reactions to heparin include

Choose	the	correct	answer
--------	-----	---------	--------

Α	0	True	0	False	aplastic/hypoplastic anaemia
В	0	True	0	False	the generation of antibodies to unbound unfractionated heparin
С	0	True	0	False	neutropaenia
D	\bigcirc	True	\bigcirc	False	leukocytoclastic vasculitis

Maximum Marks

4

Question Title

Following vessel injury platelets release

Question Description

Platelet Activation

Regarding platelet activation

Α	0	True	0	False	Thrombin is considered the most potent physiological platelet activator, signaling through protease-activated receptors (PARs).
В	0	True	0	False	Thromboxane A2 (TxA2) is synthesised by activated platelets via the COX-pathway and acts as a powerful vasoconstrictor and platelet activator.
С	0	True	0	False	The glycoprotein receptor GPIIb/IIIa is constitutively active on resting platelets, ready to bind fibrinogen at any time.
D	0	True	0	False	The platelet P2Y12 receptor is the target of clopidogrel and is activated by thrombin.

Maximum Marks

Question Title

With respect to platelets

Question Description

Platelets

With respect to platelets

Α	0	True	0	False	COX-2 inhibitors prevent platelet thromboxane production and thus are powerful anti-platelets.
В	0	True	0	False	Von Willebrand Factor (vWF) primarily functions by linking activated platelets together via GPIIb/IIIa, but it does not play a role in initial platelet adhesion to collagen.
С	0	True	0	False	cilostazol exerts its anti-platelet effect by inhibition of phosphodiesterase.
D	\circ	True	\circ	False	Dipyridamole causes reduced levels of prostacyclin release by the vessel wall.

Maximum Marks

Question Title

Platelet aggregation is inhibited by

Question Description

Platelet aggregation

Platelet aggregation is inhibited by

Α	0	True	0	False	aspirin
В	0	True	0	False	dipyridamole
С	0	True	0	False	prostacyclin
D	\circ	True	\circ	False	thromboxane A2

4

Question No:29

Maximum Marks

Question Title

Heparin

Question Description

Heparin

Heparin

Α	0	True	0	False	Thrombin inhibition by Antithrombin is potentiated 10-fold by heparin,
В	0	True	0	False	inhibits conversion of prothrombin to thrombin
					occurs naturally in blood
D	0	True	0	False	Antithrombin III deficiency is rare and can cause unresponsiveness to heparin therapy

Maximum Marks

4

Question Title

Factors predisposing to atherosclerosis include

Question Description

Atherosclerosis risk factors

Factors predisposing to atherosclerosis include

Choose t	the cor	rect a	answer
----------	---------	--------	--------

A	0	True	0	False	Diabetes mellitus
В	0	True	0	False	Familial Hypercholesterolaemia (FH) is typically an autosomal recessive condition
С	0	True	0	False	A family history of premature cardiovascular disease is a well-established predictor of risk, specifically when it involves a first-degree relative.
D	0	True	0	False	Age is a non-modifiable risk factor for atherosclerosis

Maximum Marks

4

Question Title

Activated endothelium

Question Description

Activated endothelium

Activated endothelium

Α	0	True	0	False	Endothelial activation is primarily an anti-inflammatory and anti-thrombotic process
В	0	True	0	False	During endothelial activation, the expression of adhesion molecules like VCAM-1 and ICAM-1 is downregulated
С	0	True	0	False	Reduced bioavailability of nitric oxide (NO) is a hallmark of endothelial activation and dysfunction.
D	0	True	0	False	The selectin family of adhesion molecules (E-selectin and P-selectin) is primarily responsible for the firm arrest and adhesion of leukocytes to the endothelium.

Vascular Practice Exam 2025

Question No:32

Maximum Marks

Candidate Number -

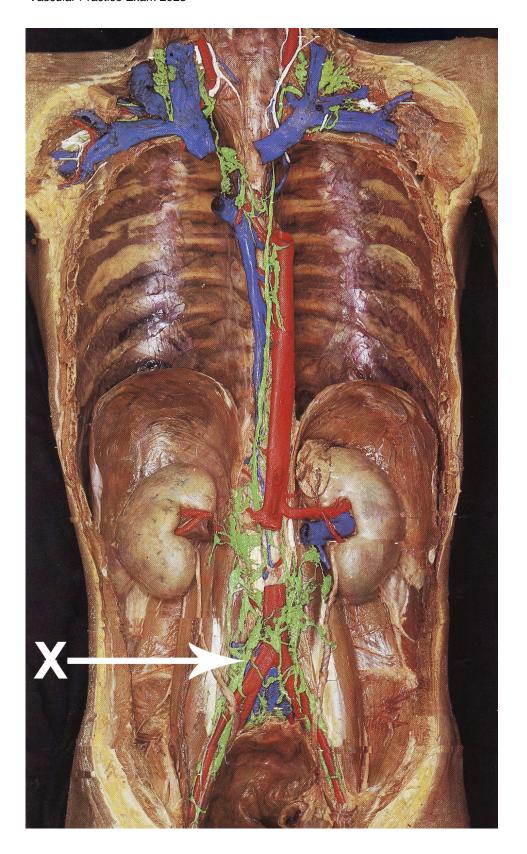
Question Title

The structure labelled X drains lymph from

Question Description

Lymphatics

The structure labelled 'X' drains lymph from



- A O True O False ureter
- B O True O False lower limb
- C O True O False small intestine
- D O True O False bladder

Maximum Marks

4

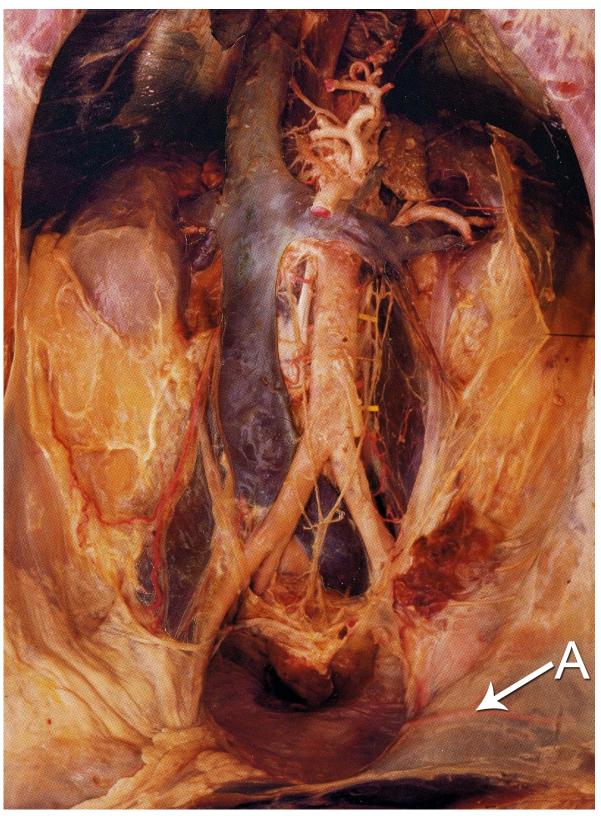
Question Title

Structure A shown on the image

Question Description

Inferior epigastric artery

Structure A shown on the image



A	0	True	0	False	is a branch of the common femoral artery
В	0	True	0	False	anastomoses indirectly with a branch of the subclavian artery
С	0	True	0	False	is a medial relation of the deep inguinal ring
D	0	True	0	False	Provides blood supply to the lower third of the rectus abdominis muscle

Maximum Marks

4

Question Title

Vertebral level L5

Question Description

Retroperitoneum

Vertebral level L5

Choose '	the	correct	answer
----------	-----	---------	--------

Α	\circ	True	\circ	False	is the origin of the inferior vena cava
В	0	True	0	False	The fifth lumbar artery is a paired vessel that arises directly from the abdominal aorta opposite the L5 vertebra
					The superior hypogastric plexus, also known as the presacral nerve, is formed by lumbar splanchnic nerves uniting in front of the L5 vertebra.
D	0	True	0	False	The left common iliac vein is often compressed by the overlying right common iliac artery as it crosses the L5 vertebral body.

Maximum Marks

4

Question Title

What are key broad concepts of ALARA

Question Description

Radiation Physics and Safety

What are key broad concepts of ALARA (As Low As Reasonably Achievable)?

A	0	True	0	False	Limit fluoroscopy time
В	0	True	\circ	False	Increased use of magnification
С	0	True	0	False	Distance from the radiation source
D	0	True	0	False	All available methods of shielding

Maximum Marks

Question Title

Inflammatory Cell Types commonly found in the wall of an abdominal aortic aneurysm include

Question Description

Aortic aneurysm histology

Inflammatory cell types commonly found in the wall of a degenerative abdominal aortic aneurysm include

Α	0	True	0	False	T lymphocytes
В	0	True	0	False	B lymphocytes
С	0	True	0	False	macrophages
D	\circ	True	\circ	False	eosinophils

Maximum Marks

4

Question Title

In exercise the increased venous return is facilitated by

Question Description

Exercise

Increased venous return is facilitated by

A	\circ	True	\circ	False	increased venous resistance
В	0	True	0	False	a fall in intrathoracic pressure during expiration
С	0	True	0	False	Creation of an arterio-venous fistula.
D	0	True	0	False	venous dilation

Vascular Practice Exam 2025

Question No:38

Maximum Marks

4

Question Title

Factors that impact on the strength of reflected echoes from a specular reflector perpendicular to the probe include

Question Description

Specular reflector

Factors that impact on the strength of reflected echoes from a specular reflector perpendicular to the probe include

	Choose 1	the correct	answer
--	----------	-------------	--------

Α	\circ	True	\circ	False	density difference
В	0	True	0	False	impedance difference
С	0	True	0	False	density sum
D	0	True	0	False	The sum of the acoustic impedances of the two media is the most important factor in determining reflection strength

	-			
М	avim	num	Marks	
	uaiii		widi N3	

4

Question Title

Principles of other Imaging and investigation modalities

Question Description

Principles of other Imaging and investigation modalities

In regard to contrast-enhanced MR Angiography (MRA):

Α	0	True	0	False	MRA is considered more accurate than CTA for evaluating vessel patency in patients with heavily calcified tibial arteries.
В	\circ	True	\circ	False	Patients with poor renal function are at risk of nephrogenic systemic fibrosis
С	0	True	0	False	Time-resolved MRA provides superior spatial resolution compared to standard static contrast-enhanced MRA, at the cost of lower temporal resolution.
					All modern intravascular stents and filters are classified as 'MRI safe', meaning they pose no risk to the patient and do not cause image artifacts on MRA.

Maximum Marks

4

Question Title

Principles of other Imaging and investigation modalities

Question Description

Principles of other imaging and investigation modalities

In regards to MRI

Α	0	True	0	False	IVC filters and vascular embolisation coils are not subject to significant force when exposed to MRI
В	0	True	0	False	Many stent manufacturers recommend waiting up to 8 weeks after placement before performing MRI
С	0	True	0	False	Stainless steel and platinum devices cause large areas of signal void on gradient-echo imaging sequences
D	0	True	0	False	Nitinol produces greater degrees of artifact compared to stainless steel

Maximum Marks

Question Title

Regarding the lymphatic system, is the following statement true or false?

Question Description

Lymphatic / Lymph node anatomy and function

Regarding the lymphatic system, is the following statement true or false?

Α	0	True	0	False	Lymphatic capillaries exhibit both open and closed junctions, allowing for the absorption of a wide range of molecules and even particulate matter.
В	0	True	0	False	For direct lymphangiography, an oily contrast agent is injected intradermally to visualize the lymphatic vessels and nodes.
С	0	True	0	False	Lymphatic truncal contractions are influenced by factors such as temperature, sympathetic stimulation, and prostaglandins.
D	0	True	0	False	External compression, such as massage, is highly effective in propelling lymph under normal physiological conditions.

Vascular Practice Exam 2025 Candidate Number -

Question No:42

Maximum Marks

4

Question Title

When exposing the carotid arteries for a carotid endarterectomy through an incision along the anterior border of the sternomastoid it is usually necessary to divide

Question Description

Internal carotid artery exposure

When exposing the carotid arteries for a carotid endarterectomy through an incision along the anterior border of the sternomastoid it is usually necessary to divide

A	0	True	0	False	supraclavicular nerves
В	0	True	0	False	the great auricular nerve
С	0	True	0	False	transverse cervical nerve
D	0	True	0	False	common facial vein

Maximum Marks

4

Question Title

The Reynolds number

Question Description

Reynolds number

The Reynolds number

A	0	True	0	False	predicts a change from laminar to turbulent flow above 5000
В	\circ	True	0	False	is inversely proportional to the diameter of the vessel
С	0	True	0	False	predicts the development of an audible bruit above 2000
D	0	True	0	False	is inversely proportional to the viscosity of blood

Maximum Marks

4

Question Title

The thoracic part of the left common carotid artery

Question Description

Common carotid artery

The thoracic part of the left common carotid artery

Choose th	e correct	answer
-----------	-----------	--------

Α	\circ	True	\circ	False	lies medial to the left pleura and lung
В	0	True	\circ	False	lies posterior to the thoracic duct
С	0	True	\circ	False	has the left recurrent laryngeal nerve on its lateral side
D	\bigcirc	True	\circ	False	has no hranches

Maximum Marks

Question Title

Which of the following structures lies in the adductor canal?

Question Description

Adductor canal

Which of the following structures lies in the adductor canal?

Choose the correct answer A O True O False The nerve to vastus intermedius B O True O False The saphenous nerve C O True O False The great saphenous vein

D O True O False The descending genicular artery

Maximum Marks

Question Title

Regarding hereditary aortopathies

Question Description

Aortic Aneurysm pathogenesis

Regarding hereditary aortopathies

Α	0	True	0	False	All Loeys-Dietz syndrome (LDS) subtypes are caused by gain-of-function mutations in genes involved in the TGF-β pathway.
В	0	True	0	False	ACTA2 mutations are a common cause of familial Thoracic Aortic Aneurysm/Dissection (TAAD) and are associated with high penetrance.
С	0	True	0	False	Medial degeneration of aortic wall is characterised by an increase in VSMC contractility and a decrease in MMPs
D	0	True	0	False	FBN1 mutations in Marfan Syndrome (MS) lead to increased TGF- β signaling

Maximum Marks

4

Question Title

Techniques to improve the detection of flow with colour Doppler include

Question Description

Colour Doppler artifact

Techniques to improve the detection of low flow with colour Doppler include:

A	0	True	0	False	increase colour gain
В	0	True	\circ	False	increase probe frequency
С	0	True	0	False	increase cut off frequency for the wall filte
D	\bigcirc	True	\circ	False	increase colour velocity scale

Maximum Marks

Question Title

Hypoxic injury to a cell causes, either directly or indirectly

Question Description

Hypoxia

Hypoxic injury to a cell causes, either directly or indirectly

A	0	True	0	False	K+ loss from cell to intercellular space
В	0	True	0	False	increase in intracellular pH
С	0	True	0	False	Ca++ loss from cell to intercellular space
D	0	True	0	False	intracellular glycogen depletion

Maximum Marks

Question Title

With respect to atherosclerotic plaque

Question Description

Atherosclerosis

With respect to atherosclerotic plaque

Α	0	True	0	False	lipids, oxidised by oxygen free radicals, are ingested by macrophages through a scavenger receptor
В	0	True	0	False	smooth muscle cells, migrating from the media, transform into lipid-containing monocytes $% \left(1\right) =\left(1\right) \left(1\right)$
С	0	True	0	False	HDL helps clear cholesterol from plaques, reducing its amount
D	0	True	0	False	foam cells are derived from macrophages via the LDL receptor

Maximum Marks

4

Question Title

Duplex & Velocity measurement

Question Description

In estimating velocity measurements in duplex ultrasound:

In estimating velocity measurements in duplex ultrasonography:

Α	\circ	True	\circ	False	The speed of sound in tissue is assumed to be constant at 1540 m/s
В	0	True	0	False	Velocity of blood does not vary with cardiac cycle
С	0	True	0	False	Differences in velocity measurements can be caused by altering the estimated angle of insonation
D	0	True	0	False	Stenoses can be categorised by velocity of maximum end diastolic velocity (EDV) within the stenosis divided by maximum EDV in the proximal vessel

4

Question No:51

	_					
N	/1	2VI	m	ıım	N/I s	ırks
ı١	"	алі		ulli	IVIC	แกอ

Question Title

Vein conduit mapping & duplex

Question Description

Vein conduit assessment

When scanning the long saphenous vein for suitability as an autologous conduit for bypass:

Α	0	True	0	False	Ideally patient should be positioned with feet tilted up to gauge calibre adequately
В	0	True	0	False	A low frequency transducer probe is typically utilised
С	0	True	0	False	Assessment of the deep veins are unnecessary
D	0	True	0	False	Veins < 2 mm are deemed not suitable conduits for bypass

Maximum Marks

4

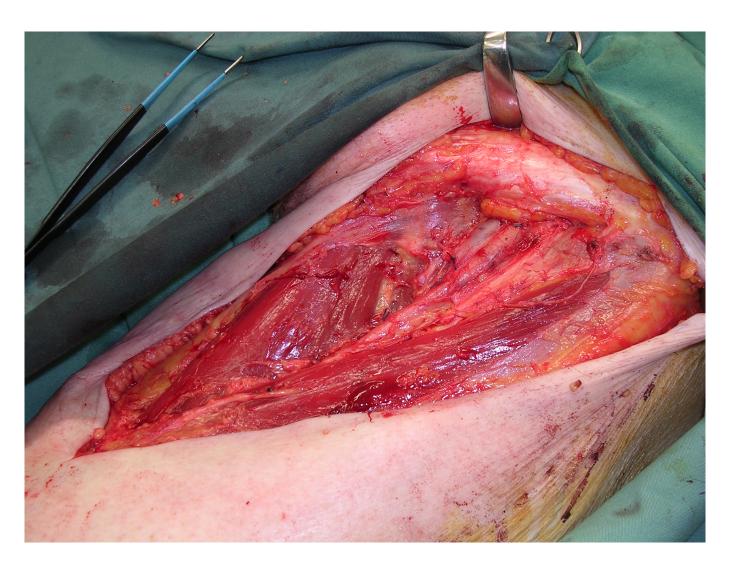
Question Title

The area demonstrated in this image of the thigh

Question Description

Femoral triangle

The area demonstrated in this image of the thigh



Α	0	True	0	False	is bounded laterally by the lateral border of sartorius
В	0	True	0	False	contains the common femoral vein within the femoral sheath
С	0	True	0	False	contains the femoral nerve, separated into superficial and deep branches by the medial circumflex femoral artery
D	0	True	0	False	contains the common femoral artery terminating into the superficial femoral and profunda femoris arteries

Vascular Practice Exam 2025

Question No:53

Maximum Marks

(S | 4

Question Title

The following are changes seen in patients with peripheral arterial disease, EXCEPT

Question Description

Peripheral arterial disease

The following are changes seen in patients with peripheral arterial disease

Α	0	True	0	False	monophasic flow distal to significant disease
В	0	True	0	False	elevated peak systolic velocity at sites of stenosis
С	0	True	0	False	loss of flow reversal proximal to stenoses
D	0	True	0	False	spectral broadening related to turbulent flow

Maximum Marks

Question Title

Ultrasound dept artefacts

Question Description

USS depth artefacts

Which of the below named artefacts lead to incorrect display of the depth of tissues?

Choose	the	correct	answer
--------	-----	---------	--------

Α	0	True	0	False	Reverberation
В	0	True	0	False	Shadowing
С	0	True	0	False	Comet tail artefact
D	\circ	True	\circ	False	Speckle

4

Question No:55

Ma	ıxim	um	Ma	rks
IVIC	KAIIII	чи	IVIG	1113

Question Title

Vascular Ultrasound & attenuation

Question Description

Attenuation

In reference to ultrasound imaging:

Α	0	True	0	False	The resolution of an ultrasound image is directly related to the wavelength
В	0	True	0	False	The lower the frequency, the better the resolution
С	0	True	0	False	The depth of penetration of the image beam is inversely related to the frequency
D	0	True	0	False	Scattering refers to the interaction of ultrasound with small structure (red blood cells, capillaries etc) within the tissues imaged

Maximum Marks

Question Title

The following vessels contribute segmental blood supply to the spinal cord

Question Description

Spinal cord

The following vessels contribute segmental blood supply to the spinal cord

A	\circ	True	0	False	vertebral arteries
В	0	True	0	False	external iliac arteries
С	0	True	0	False	intercostal arteries
D	0	True	0	False	costocervical arteries

Maximum Marks

4

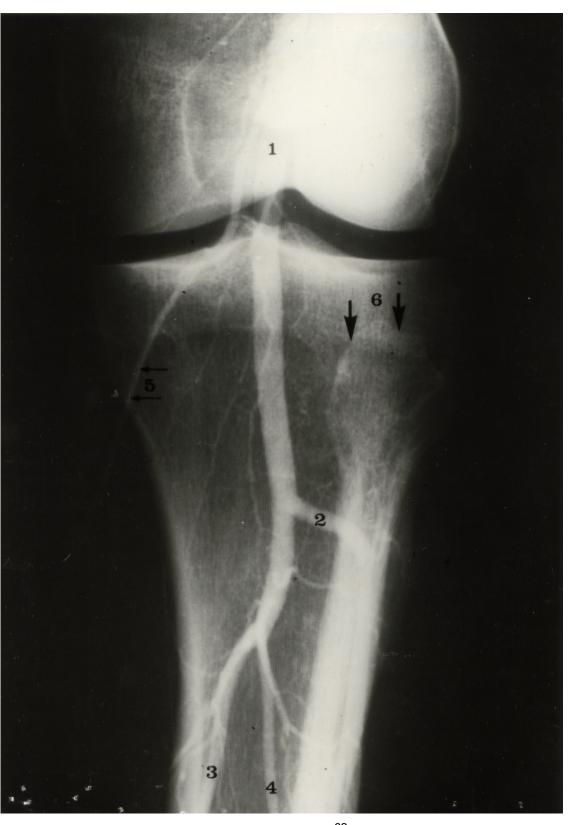
Question Title

In this angiogram

Question Description

Angiogram

In this angiogram



Α	0	True	0	False	"1" lies posterior to the tibial nerve
В	0	True	0	False	"2" is accompanied in the anterior compartment by the superficial peroneal nerve
С	0	True	0	False	"3" passes superficial to the soleal arch as it runs inferiorly in the posterior compartment
D	0	True	0	False	"4" terminates in the calf into lateral calcaneal and perforating branches

Maximum Marks

Question Title

Normal venous flow

Question Description

Venous flow

Normal venous flow

A	0	True	0	False	is only from superficial to deep through perforating veins
В	0	True	0	False	is continuous and demonstrates no variation with respiration
С	0	True	0	False	is retrograde with the release of distal compression
D	0	True	0	False	is low velocity and therefore not seen on colour flow imaging

Maximum Marks

4

Question Title

Regarding ultrasound

Question Description

Ultrasound

Regarding ultrasound

Α	0	True	0	False	the speed of sound in soft tissue is approximately 1540 metres/second
В	0	True	0	False	the speed of sound in bone is lower than that in air
С	0	True	0	False	attenuation of ultrasound involves absorption, reflection, amalgamation and scattering
D	0	True	0	False	B-mode imaging shows different amplitude echoes at different brightness levels in the display

Vascular Practice Exam 2025

Candidate Number -

4

Question No:60

Ν Л	!		N/1 I	
IVI	axım	um	Marks	,

Question Title

Methods to reduce aliaising in doppler ultrasound include

Question Description

Aliaising

Methods to reduce aliaising in doppler ultrasound include

Choose the correct answe	Choo	Se	the	correct	answei
--------------------------	------	----	-----	---------	--------

Α	0	True	0	False	reduce the velocity scale
В	0	True	0	False	increase the probe frequency
С	0	True	0	False	manipulate the acoustic window so the target vessel is closer to the probe
D	0	True	0	False	use "High PRF" mode