



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनंतपुरम् -11  
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL  
SCIENCES & TECHNOLOGY,  
THIRUVANANTHAPURAM—695 011

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ENTRANCE EXAMINATION : ACADEMIC SESSION JANUARY 2018

PROGRAMME: MCh/PDCC VASCULAR SURGERY

Time: 90 min

Max.Marks: 100

(Select the most appropriate answer)

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(There are no negative marks for wrong answers)

1. The most game changing surgical technique of ligation of blood vessels was proposed by
  - a. Andreas Vesalius
  - b. Ambrose Pare
  - c. John Hunter
  - d. Joseph Lister
  
2. Which is the most common site of peripheral arterial aneurysms?
  - a. Femoral artery
  - b. Popliteal artery
  - c. Brachial artery
  - d. Subclavian artery
  
3. What is the recommended treatment for acute complicated type B aortic dissection with visceral malperfusion?

- a. Open surgical repair (Bypass)
  - b. Endovascular fenestration
  - c. Thoracic endovascular aortic repair (TEVAR)
  - d. Medical management
4. The most common risk associated with carotid artery aneurysm is
- a. Thrombosis of the aneurysm
  - b. Rupture of the aneurysm
  - c. Embolisation of mural thrombus
  - d. Compression of hypopharynx
5. As per the Crawford classification of thoraco-abdominal aortic aneurysms, an aortic aneurysm extending from just beyond left subclavian artery to above the renal artery is ?
- a. Type III
  - b. Type V
  - c. Type I
  - d. Type IV
6. Which among the following is the contraindication for EVAR
- a. Calcified common femoral arteries
  - b. Neck length more than 1.5 cm
  - c. Neck angulation less than 60 degrees
  - d. Circumferential calcification at the neck
7. As per the NASCET trial benefit of stroke prevention from carotid endarterectomy (CEA) in symptomatic patients is proven above what percentage of carotid stenosis?
- a. 50%
  - b. 60%
  - c. 70%

- d. 80%
8. According to the Rutherford classification for chronic limb ischemia, what is the category of a patient who suffers from gangrene of the great toe?
- a. 3
  - b. 4
  - c. 5
  - d. 6
9. Which is the most common type of thoracic outlet syndrome?
- a. Arterial
  - b. Neurogenic
  - c. Venous
  - d. All occur with equal frequency
10. Who is considered as father of Modern Vascular Surgery?
- a. Michael DeBakey
  - b. Alexis Carrel
  - c. William Osler
  - d. Rudolph Matas
11. Which of the following is a direct factor xa inhibitor?
- a. Dabigatran
  - b. Fondaparinux
  - c. Rivaroxaban
  - d. Dalteparin
12. Which among the following is not a risk factor for development of Deep Venous thrombosis?
- a. Pancreatic cancer
  - b. Oral contraceptive pills usage

- c. Homocysteine deficiency
- d. Factor V Leiden Mutation

13. Duplex findings in acute deep venous thrombosis is all except:

- a. Dilated and non compressible veins
- b. Presence of collaterals draining the obstructed veins
- c. Absence of spontaneous flow
- d. Loss of flow variation with respiration

14. Corkscrew collaterals are classic feature of which of the following disease?

- a. Takayasu's Arteritis
- b. Buerger's disease
- c. Atherosclerotic occlusion
- d. Giant cell arteritis

15. Drugs used for sclerotherapy of varicose veins are all except.

- a. Ethanolamineoleate
- b. Polidocanol
- c. Sodium tetradecyl sulfate
- d. Ethanol

16. Most common complication of Varicose vein Stripping is

- a. Deep vein thrombosis
- b. Hemorrhage
- c. Ecchymosis
- d. Infection

17. Best option for graft material for infra inguinal bypass is?

- a. Polyester graft
- b. Ipsilateral great saphenous Vein
- c. Autologous artery
- d. Contralateral great saphenous Vein

18. Allen's test is useful in evaluating:

- a. Integrity of the Palmar arch
- b. Digital blood flow
- c. Diagnosis of cervical rib
- d. Ruling out thoracic outlet compression

19. Most common artery involved in Takayasu arteritis is:

- a. Common carotid artery
- b. Left Subclavian artery
- c. Right Subclavian artery
- d. Renal artery

20. May Thurner Syndrome is a clinical condition which is classically applied in which of the following clinical condition?

- a. Compression of Rt Common Iliac vein by Rt common iliac artery
- b. Compression of Lt Common Iliac vein by Rt common iliac artery
- c. Compression of Lt common iliac vein by Rt external iliac artery
- d. Compression of IVC bifurcation by the Aorta

21. Neointimal hyperplasia cause vascular graft failure as a result of hypertrophy of:

- a. Endothelial cells
- b. Collagen fibres
- c. Smooth muscle fibres
- d. Elastic fibres

22. Next to Aorta, which among the following vessels are commonly involved in aneurysm formation in abdomen?

- a. Internal iliac artery
- b. External Iliac artery
- c. Inferior mesenteric artery

- d. Splenic Artery
23. What is the universally accepted size threshold for deciding intervention in an asymptomatic Thoraco abdominal aortic aneurysm in men?
- 5cm
  - 5.5 cm
  - 4.5 cm
  - 6.0 cm
24. Which of these thrombophilic states have a higher incidence of arterial thrombosis?
- Protein C deficiency
  - Hyperhomocysteinemia
  - Factor V Leiden mutation
  - Anti-thrombin III deficiency
25. Mycotic aneurysm is aneurysm infected because of
- Fungal infection
  - Blood borne infection (intravascular)
  - Infection introduced from extravascular source
  - Both intravascular and extravascular infection
26. Who is credited for performing the first Thoracic endovascular aneurysm repair (TEVAR)?
- Micheal Dake
  - Juan Parodi
  - Charles Dotter
  - Thomas Fogarty
27. Which among the following is the randomized control trial comparing carotid endarterectomy Vs carotid artery stenting?
- CREST Trial

- b. BASIL Trial
- c. NASCET Trial
- d. ACST Trial

28. A 25yr old male, a known case of rheumatic heart disease with severe mitral stenosis and atrial fibrillation, presents with acute onset of Rt lower limb pain since 12hrs. Clinically only Rt femoral artery is palpable. Limb is cold, sensation is absent and foot drop is present with severe calf tenderness. His total leucocyte counts is 25,000cells/cc and S-creat is 2.5mg/dl. What is the next appropriate mode of treatment?

- a. Since he is young and only 12 hours of ischemia- an attempt of revascularization should be attempted
- b. Patient needs primary emergency amputation
- c. Wait for demarcation and then plan for amputation electively
- d. Since calf is tender a bed side fasciotomy followed by thrombolysis should be the best mode of management

29. Best initial treatment for 65yrs old male with claudication of left lower limb at 100 m due to TASC D left SFA occlusion is?

- a. Left FP bypass with vein graft
- b. Left FP bypass with Dacron graft
- c. Angioplasty of the left SFA
- d. Best medical management

30. A 40yr old man who is a smoker comes to the surgeon with h/o rest pain and bluish discoloration of little toe. Probable diagnosis would be

- a. Aortoiliac occlusive disease
- b. Buerger's disease
- c. Popliteal entrapment syndrome
- d. Raynaud's phenomenon

31. Name the odd one from the following acute aortic syndromes

- a. Aortic dissection
- b. Aortic aneurysm
- c. Penetrating aortic ulcer
- d. Intramural hematoma

32. Stent graft is made of prosthetic material supported by

- a. Nitinol
- b. Steel Titanium Alloy
- c. Platinum
- d. Carbon

33. One of the following is inappropriate therapeutic modality for peripheral arterial occlusive disease with good distal run off

- a. Bypass grafting
- b. Angioplasty with stenting
- c. Best medical management
- d. Lumbar sympathectomy

34. Usual presentation of renal artery stenosis

- a. Uncontrolled hypertension
- b. Flash pulmonary edema
- c. Raised renal parameter
- d. Incidentally detected

35. In ischemic stroke related to carotid artery atherosclerosis, the lesion most commonly found in

- a. Origin of common carotid artery
- b. Mid CCA
- c. Carotid bulb of ICA



d. Intracranial cerebral arteries

36. Name the commonest congenital vascular anomaly

- a. PDA
- b. Coarctation of Aorta
- c. Right aortic arch
- d. Aortic ectasia

37. The most common cranial nerve injured during carotid endarterectomy is

- a. Hypoglossal Nerve
- b. Vagus Nerve
- c. Spinal Accessory Nerve
- d. Marginal mandibular Nerve

38. Which of the following is false about carotid endarterectomy as per randomised control trials?

- a. Patch closure is superior to the primary closure after endarterectomy
- b. Surgery under general anaesthesia or local anaesthesia has same outcome in terms of perioperative stroke risk
- c. Carotid artery stenting has better perioperative stroke risk than endarterectomy
- d. In older patients carotid stenting is worse than carotid endarterectomy

39. Which among the following is not an extra anatomical bypass operation?

- a. Axillo femoral bypass
- b. Femoro femoral bypass
- c. Thoraco femoral bypass
- d. Aorto femoral bypass

40. The term 'Mycotic' aneurysm was first coined by

- a. Michael Debakey
- b. Willian Osler

- c. John Hunter
- d. Henry Crawford

41. The most common cause of post operative mortality in aortic surgery is?

- a. Bleeding
- b. Cardiac cause
- c. Respiratory failure
- d. Renal failure

42. The most common site of acute aortic dissection is?

- a. Right lateral wall of ascending aorta
- b. Arch of aorta
- c. Post subclavian aorta
- d. Abdominal aorta

43. Sequence of colour changes observed when a Raynaud's disease patient immersed his hand in cold water:

- a. Red, blue, white
- b. Blue, red, white
- c. White, red, blue
- d. White, blue, red

44. Commonest symptom associated with thoracic outlet syndrome is:

- a. Intermittent claudication
- b. Pain on the radial distribution
- c. Pain on the ulnar distribution
- d. Gangrene

45. Nicoladoni Branham sign is:

- a. Compression cause bradycardia
- b. Compression cause tachycardia

- c. Hypotension
- d. Absence of thrill

46. The most common cause of acquired arterio-venous fistula is:

- a. Bacterial infection
- b. Malignancy
- c. Blunt trauma
- d. Penetrating trauma

47. Most common vessel to be affected in Buerger's disease is?

- a. Femoral artery
- b. Anterior and posterior tibial artery
- c. Iliac artery
- d. Popliteal artery

48. Pseudoclaudication is caused by:

- a. Femoral artery stenosis
- b. Popliteal entrapment syndrome
- c. Lumbar canal stenosis
- d. Ilio femoral DVT

49. Buegers's disease affects all except:

- a. Small vessels
- b. Nerves
- c. Lymphatics
- d. Veins

50. For reimplantation surgery, the detached digit or limb is best preserved in which of the following:

- a. Glycerol
- b. Distilled water
- c. Hypertonic saline

d. Isotonic saline

51. All are true about Bochdalek hernia except:

- a. Posterolateral hernia
- b. Left sided hernia
- c. Present in second decade
- d. Congenital

52. Fundoplication is the treatment for?

- a. Hiatus hernia
- b. Achalasia Cardia
- c. CA Oesophagus
- d. Diffuse oesophageal spasm

53. Typhoid perforation usually occurs during which week of the infection?

- a. 1<sup>st</sup> week
- b. 2<sup>nd</sup> week
- c. 3<sup>rd</sup> week
- d. 4<sup>th</sup> week

54. Fistula leading to highest electrolyte imbalance is?

- a. Gastric
- b. Sigmoid
- c. Duodenal
- d. Rectal

55. Which of the following statement is not true about Meckel's Diverticulum?

- a. Most common congenital anomaly of small intestine
- b. Most common ectopic mucosa is gastric mucosa
- c. Should be treated even in asymptomatic patients since the complication risk is high

d. Can present as GI Bleed

56. Mass in the right iliac fossa can be?

- a. Ileocecal Tuberculosis
- b. Ileocecal Neoplasm
- c. Amoeboma
- d. All of the above

57. All are seen in carcinoid syndrome except

- a. Constipation
- b. Diarrhoea
- c. Liver metastasis
- d. 5-HT secretion

58. Hirschprung's disease involves which region of the intestine?

- a. Colon
- b. Rectum
- c. Rectosigmoid
- d. Terminal Ileum

59. Treatment of choice for Warthin's tumour:

- a. Superficial parotidectomy
- b. Enucleation
- c. Radiotherapy
- d. Injection of sclerosant agent

60. Ranula arises from which salivary gland?

- a. Submandibular
- b. Parotid
- c. Minor salivary gland
- d. Sublingual

61. A 60 yrs old male presented in emergency with breathlessness, facial swelling and dilated veins on the chest. Diagnosis is?
- Thymoma
  - Superior vena caval obstruction
  - Lung cancer
  - Hodgkin's Lymphoma
62. Excision of the hyoid bone is done in:
- Branchial cyst
  - Branchial fistula
  - Thyroglossal cyst
  - Sublingual dermoids
63. Structures not removed in radical neck dissection is:
- Vagus nerve
  - Submandibular gland
  - Sternocleidomastoid muscle
  - Internal jugular vein
64. True about cystic hygroma is:
- Present in anterior triangle of neck
  - Sclerosing agents not useful
  - Pre operative MRI is crucial
  - Surgery is always indicated
65. Bezoar in the stomach present as
- Melena
  - Perforation
  - GI obstruction
  - Diarrhoea

66. Which is the treatment of choice for duodenal atresia
- Duodenoduodenostomy
  - Duodenojejunostomy
  - Ramsted's operation
  - Gastroduodenostomy
67. Congenital hypertrophic pyloric stenosis is associated with:
- Hypochloremic metabolic alkalosis
  - Hypochloremic metabolic acidosis
  - Hyperchloremic metabolic alkalosis
  - Hyperchloremic metabolic acidosis
68. True about tumour lysis syndrome are all except:
- Hyperkalemia
  - Hypercalcemia
  - Hyperuricemia
  - Hyperphosphatemia
69. A patient comes with hard painless left supraclavicular lymphnode. A biopsy report stated squamous cell carcinoma. What is the diagnosis?
- Ca stomach
  - Ca breast
  - Ca lung
  - Ca pancreas
70. Which group of nodes are called as Delphian nodes?
- Pretracheal
  - Paratracheal
  - Supraclavicular
  - Posterior triangle
71. In which of the following tumour alpha feto protein is elevated?

- a. Choriocarcinoma
- b. Neuroblastoma
- c. Hepatocellular Carcinoma
- d. Seminoma

72. Coffee bean sign is usually seen in

- a. Volvulus
- b. Pyloric stenosis
- c. Intussusception
- d. Intestinal obstruction

73. Most common cause of colonic obstruction is

- a. Volvulus
- b. Hernia
- c. Adhesions
- d. Neoplasm

74. According to 'rule of nines', burns involving perineum are:

- a. 1%
- b. 9%
- c. 18%
- d. 27%

75. The term universal tumour refers to:

- a. Adenoma
- b. Papilloma
- c. Fibroma
- d. Lipoma



76. A 24-year-old fire fighter sustains 30% TBSA burns to his torso, face, and extremities. His wounds are treated topically with silver nitrate. Which of the following complications is associated with use of this agent?
- Hypernatremia
  - Metabolic acidosis
  - Hyperchloremia
  - Methemoglobinemia
77. A 22-year-old man sustains severe blunt trauma to the back. He notes that he cannot move his lower extremities. He is hypotensive and bradycardic. Which of the following is the best initial management of the patient?
- Administration of steroids
  - Intravenous fluid bolus
  - Administration of dopamine
  - Administration of epinephrine
78. Which of the following is an absolute indication for surgical treatment of a renal injury?
- Major urinary extravasation
  - Vascular injury
  - Expanding perirenal hematoma
  - 20% devitalized renal parenchyma
79. Which of the following is absolute contraindication to Breast conservative therapy?
- Pregnancy
  - Rheumatoid arthritis
  - Tumor size
  - Breast size
80. Beck's Triad includes all except:
- Muffled heart sounds
  - Raised JVP

- c. Hypotension
- d. Bradycardia

81. Grey Turner's sign is classically found in

- a. Acute cholecystitis
- b. Choledocholithiasis
- c. Acute appendicitis
- d. Acute haemorrhagic pancreatitis

82. In a patient following GI surgery, below which level of albumin is an indicator of mortality

- a. <3gm%
- b. <2gm%
- c. <2.5gm%
- d. <1.5gm%

83. Splenectomy is most useful in:

- a. Sickle cell anemia
- b. Thalassemia
- c. Hereditary spherocytosis
- d. Acquired autoimmune haemolytic anemia

84. Peutz-Jeghers polyps present most commonly in

- a. Rectum
- b. Jejunum
- c. Colon
- d. Stomach

85. Carpal tunnel syndrome characteristically affects which of the following nerves

- a. Ulnar nerve
- b. Radial nerve

- c. Median nerve
- d. Brachial nerve

86. Demeester score is gold standard test for evaluation of

- a. Diffuse oesophageal spasm
- b. GERD
- c. Achalasia cardia
- d. Nutcracker oesophagus

87. Commonest injured organ in blast injury is

- a. Lung
- b. Liver
- c. Spleen
- d. Pancreas

88. Peritoneal mice is

- a. Pseudomyxoma peritonei
- b. Appendices epiploicae
- c. Peritoneal seedings in tumour
- d. Endometriosis

89. All are seen in pancoast syndrome except

- a. Brachial plexus involvement
- b. Dyspnoea
- c. Clubbing
- d. Myasthenia gravis

90. Indication for neck exploration is not one of the following

- a. Expanding hematoma
- b. Transient ischemic attack following trauma
- c. External hemorrhage

j. Diminished carotid pulse

91. Amifostine is:

- a. Radiosensitiser
- b. Radioprotector
- c. Radiomodifier
- d. Radiomimetic

92. Neoadjuvant chemotherapy is not used in:

- a. Ca Thyroid
- b. Ca Breast
- c. Ca Oesophagus
- d. Ca Lung

93. Pancoast tumour is seen with cancer of

- a. Apical lobe of lung
- b. Thyroid
- c. Lingual lobe
- d. Pyramidal fossa

94. Glomus tumour is seen in

- a. Base of skull
- b. Adrenal
- c. Pituitary
- d. Finger

95. Most common site of Curling's ulcer is

- a. Ileum
- b. Stomach
- c. Duodenum
- d. Esophagus

96. When peptic ulcer leads to gastric outlet obstruction, the most likely site of obstruction is:
- Antrum
  - Pylorus
  - Lesser curvature
  - First part of duodenum
97. Ramsted's operation is performed for:
- Hirschprung's disease
  - Congenital hypertrophic pyloric stenosis
  - Duodenal atresia
  - Anorectal malformation
98. The most common type of intususception is?
- Ileocolic
  - Colocolic
  - Ileoileal
  - Retrograde
99. Acute pseudoobstruction of the colon is known as:
- Sjogren's syndrome
  - Gardner's syndrome
  - Ogilvie's syndrome
  - Peutzjegher's syndrome
100. Pulled up cecum is seen in:
- Ca Colon
  - Ulcerative Colitis
  - Crohn's disease
  - Ileo cecal tuberculosis

