

MCA LTUS

Test Booklet Serial No.....

Series No. : .....

Number of Questions : 120

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Booklet Contains Pages : 32

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1. The most common type of ASD arises due to :-
  - (A) Excessive resorption of septum primum
  - (B) Excessive resorption of septum secundum
  - (C) Inadequate development of septum primum
  - (D) Endocardial cushion defect
  
2. A wide fixed split of the second heart sound is present in :-
  - (A) ASD with PAH
  - (B) TAPVC
  - (C) TGA
  - (D) PAPVC with intact IAS
  
3. The most common type of VSD are :-
  - (A) Perimembranous
  - (B) Muscular
  - (C) Doubly committed
  - (D) Inlet
  
4. Maladie de Roger is another name for :-
  - (A) Small VSD
  - (B) ASD with PAPVC
  - (C) Duct dependent circulation
  - (D) Large muscular VSD

5. Lutembacher syndrome is :-
- (A) Congenital ASD with acquired MS
  - (B) Congenital ASD with congenital MS
  - (C) Congenital ASD with acquired MR
  - (D) Any of the above
6. Which of the following is not an indication for device closure of VSD ?
- (A) Residual VSD
  - (B) Post MI VSD
  - (C) Outlet VSD
  - (D) Multiple VSD
7. Spontaneous closure of a VSD in a one month old child is seen in what percentage of cases ?
- (A) 25%
  - (B) 50%
  - (C) 60%
  - (D) 80%
8. The formation of the cardiac loop is complete by :-
- (A) Day 21
  - (B) Day 28
  - (C) 6 weeks
  - (D) Day 35

9. The coronary sinus is formed from the :-
- (A) Left sinus horn
  - (B) Right sinus horn
  - (C) Oblique vein of left atrium
  - (D) Left common cardinal vein
10. The ligamentum teres hepatis is formed from the :-
- (A) Right umbilical vein
  - (B) Left umbilical vein
  - (C) Both umbilical veins
  - (D) Ductus venosus
11. Pulmonary venous obstruction is most commonly seen in :-
- (A) Supracardiac TAPVC
  - (B) Infra-cardiac TAPVC
  - (C) Cardiac TAPVC
  - (D) Mixed TAPVC
12. Anatomic features shared by all types of AV septal defects include all EXCEPTS :-
- (A) Shortened dimension of inlet septum
  - (B) Lengthened dimension of outlet septum
  - (C) Narrowing of LVOT
  - (D) Posterior deviation of the aortic valve



13. Most common type of av septal defect present in patients with Down's syndrome is :-
- (A) Rastelli type A
  - (B) Rastelli type B
  - (C) Tastelli type C
  - (D) Transitional type AV canal
14. The most common aortic arch anomaly is :-
- (A) Double aortic arch
  - (B) Right aortic arch
  - (C) Aberrant right subclavian artery
  - (D) Right aortic arch with left ligamentum arteriosum
15. Sidedness of aortic arch is defined by its relation to the :-
- (A) Esophagus
  - (B) Trachea
  - (C) Bronchus
  - (D) Vertebral column
16. In tetralogy of fallot the basic pathology is :-
- (A) RV outflow obstruction
  - (B) VSD
  - (C) Anterior malalignment of the infundibular septum
  - (D) Rightward displacement of the infundibular septum

17. The first surgical correction of TOF on pump oxygenator was performed by :-
- (A) Blalock
  - (B) Kirklin
  - (C) duShane
  - (D) Lillehei
18. Increased pulmonary blood flow in TOF is primarily from the :-
- (A) Descending aorta
  - (B) Ascending aorta
  - (C) Bronchial arteries
  - (D) Pulmonary arteries
19. The most common cyanotic heart disease in children above 4 years of age is :-
- (A) TOF
  - (B) TGA
  - (C) Truncus arteriosus
  - (D) TAPVC
20. The arterial pulse in TOF is usually :-
- (A) Reduced in volume
  - (B) Increase in volume
  - (C) Normal in volume
  - (D) May be any of the above

21. All of the following are treatments of cyanotic spells EXCEPTS :-
- (A) Volume administration
  - (B) Morphine
  - (C) Intubation
  - (D) Adrenaline infusion
22. A shunt is usually done in Tetralogy of Fallot for :-
- (A) Child weighing less than 10 kg
  - (B) Multiple muscular VSDs
  - (C) Very small pulmonary annulus
  - (D) Small right pulmonary artery
23. Junctional Ectopic Tachycardia after repair of TOF is commonly seen following :-
- (A) Trans-RV approach
  - (B) RV-RA approach
  - (C) Trans-RA approach
  - (D) Trans-pulmonary approach
24. A residual VSD in TOF is usually diagnosed in the operating room by :-
- (A) Systemic hypotension
  - (B) Step-up in oxygen saturation form RA to PA
  - (C) Higher left atrial pressures
  - (D) Endo-tacheal bleeding

25. The most common method of treating high right ventricular pressures following repair for TOF is by :-
- (A) Placing a trans-annular patch
  - (B) Cutting a hole in the VSD patch
  - (C) Creating a PFO
  - (D) Enlarging the right and left pulmonary arteries by patch
26. All of the following are advantages of classic BT shunt over modified shunt EXCEPT :-
- (A) Risk of infection is less
  - (B) Take down is easier
  - (C) Sizing is not an issue
  - (D) Growth potential
27. The flow rates on cardio-pulmonary bypass for a 5kg child are calculated as :-
- (A) 80 ml/kg/min
  - (B) 15 ml/kg/min
  - (C) 200 ml/kg/min
  - (D) 2.4 L/min/m<sup>2</sup>
28. Which of the following statements is correct regarding St. Thoms Cardioplegia ?
- (A) Described by Mark Braimbridge
  - (B) Both St. Thomas I and II contain Sodium bicarbonate
  - (C) St. Thomas II solution has acidic pH
  - (D) The potassium chloride concentration is higher than sodium chloride



29. All of the following are true of prosthetic valve endocarditis, EXCEPT :-
- (A) Risk of greatest in the first 6 months after surgery
  - (B) Within 12 months organism is usually Staphylococcus
  - (C) After 12 months organism is usually streptococcus
  - (D) Usually confined to the valve leaflets
30. All of the following are ECG features of mitral stenosis EXCEPT :-
- (A) Left atrial overload
  - (B) Right atrial overload
  - (C) Right ventricular hypertrophy
  - (D) Left ventricular hypertrophy
31. All of the following are causes of mitral stenosis EXCEPT :-
- (A) Lutembacher syndrome
  - (B) Alpha-1 iduronidase deficiency
  - (C) Endomyocardial fibrosis
  - (D) Methysergide therapy
32. Pulsus parvus et tardus is characteristic of :-
- (A) Mitral valve prolapse
  - (B) Aortic stenosis
  - (C) Mitral Regurgitation
  - (D) Tricuspid Regurgitation

33. Echocardiographic features of mitral stenosis include all of the following EXCEPT :-
- (A) EF slope is diminished
  - (B) Posterior movement of PML
  - (C) Doming of AML
  - (D) Accentuation of a wave
34. The precursor of the current ST. Jude valve was :-
- (A) Lillehei kalke valve
  - (B) Magovern cromie valve
  - (C) Wada cutter valve
  - (D) Hall Kaster valve
35. Which of the following is not a Nadas Major criterion ?
- (A) Diastolic murmur of any grade
  - (B) Cyanosis
  - (C) Systolic murmur grade II
  - (D) CCF
36. The best X-ray differentiating feature between ASD, VSD and PDA is size of :-
- (A) MPA (Main pulmonary artery)
  - (B) LA (Left atrium)
  - (C) RA (Right atrium)
  - (D) Aorta

37. Which of the following may occur as a complication following secundum ASD closure which is high in the septum ?
- (A) Air embolism
  - (B) Cyanosis
  - (C) Mitral Regurgitation
  - (D) SA node injury
38. Most common congenital coronary anomaly is :-
- (A) Left circumflex artery arising from right sinus
  - (B) RCAOS
  - (C) LCAOS
  - (D) ALCAPA
39. Which of the following is not a class I indication for CABG ?
- (A) Significant left main disease
  - (B) Left main equivalent
  - (C) Proximal LAD with two vessel disease
  - (D) Triple vessel disease
40. The following are causes of CCP EXCEPT :-
- (A) Tuberculosis
  - (B) Dressler's syndrome
  - (C) Rheumatic Carditis
  - (D) Uremia

41. The following present with a large aorta in the Chest X-ray EXCEPT :-
- (A) Rasmussen's Aneurysm
  - (B) AP window
  - (C) Tetralogy of fallot
  - (D) Valvar aortic stenosis
42. All of the following may precipitate a pulmonary hypertensive crises EXCEPT :-
- (A) Endotracheal suctioning
  - (B) Use of a drenaline
  - (C) Use of is oprenaline
  - (D) Hypercarbia
43. Which of the following conditions is commonly associated with right aortic arch ?
- (A) VSD with PS
  - (B) Transposition of great arteries
  - (C) TAPVC
  - (D) Truncus arteriosus
44. Taussig's axiom includes all of the following EXCEPT :-
- (A) Cyanosis
  - (B) Clubbing
  - (C) Clear lung fields
  - (D) Normal sized heart



45. Propranolol helps in Tetralogy of fallot in all of the following ways EXCEPT :-
- (A) Decreases infundibular spasm
  - (B) Decreases heart rate
  - (C) Shifts oxygen dissociation curve to the right
  - (D) Decreases SVT
46. The trans-PA approach in Tetralogy of fallot was popularized by :-
- (A) Hudspeth
  - (B) Lillehei
  - (C) Gerbodie
  - (D) Sakornapant Pantpis
47. Surgical options of Ebsteins include all of the following EXCEPT :-
- (A) Danielson repair
  - (B) Fontan Surgery
  - (C) Tricuspid valve replacement with a bioprosthetic valve
  - (D) RV-PA conduit
48. All of the following are described procedures for palliation of Tetralogy of fallot EXCEPT :-
- (A) Davidson shunt
  - (B) Benson roe procedure
  - (C) McGoon's procedure
  - (D) Brock's procedure

49. The commonest cause of a pneumatocele in children is :-
- (A) Congenital lobar emphysema
  - (B) Congenital lung cyst
  - (C) Resolving pneumonia
  - (D) Sequestration cyst
50. Popcorn calcification on X-ray is seen in :-
- (A) Giant bulla
  - (B) Cystic adenomatoid malformation
  - (C) Small cell carcinoma
  - (D) Hamartoma
51. Double lumen tubes were introduced by :-
- (A) Bjork and Carlens
  - (B) Robertshaw
  - (C) Inoue
  - (D) None of the above
52. L-J medium is used for diagnosis of :-
- (A) Aspergillosis
  - (B) Nocardia
  - (C) Tuberculosis
  - (D) Lymphoma

53. Which of the following is an incomplete fundoplication procedure ?
- (A) Nissen's
  - (B) Belsey Mark Iv
  - (C) Rosetti
  - (D) Donahue
54. The most specific indicator of successful endotracheal ventilation is :-
- (A)  $pO_2$  levels in ABG
  - (B)  $pO_2$  levels in ABG
  - (C)  $ETCO_2$
  - (D) Return of electro-mechanical syndrome
55. The following are features of left atrial enlargement on the chest X-ray EXCEPT :-
- (A) Straightening of left heart border
  - (B) Double atrial shadow
  - (C) Cardiac border  $> 5.5$  cm from midline
  - (D) Widening of carinal angle
56. All of the following indicate severe leg ischemia EXCEPT :-
- (A) Ulceration of skin
  - (B) Beurgers angle  $> 30^\circ$
  - (C) Capillary filling time  $> 30$  sec
  - (D) Gangrene

57. Tenderness on forced passive dorsiflexion of the foot is known as :-
- (A) Homans sign
  - (B) Moses sign
  - (C) Bancrofts sign
  - (D) Lowenberg sign
58. All of the following are side effects of heparin EXCEPT :-
- (A) Osteopenia
  - (B) Increases SVR
  - (C) Thrombocytopenia
  - (D) DIC
59. Potassium cardioplegia was introduced by :-
- (A) Melrose
  - (B) Gay and Ebert
  - (C) John Gibbon
  - (D) Charles Drew
60. Absolute indications for selective SVC cannulation include all of the following EXCEPT :-
- (A) Senning's
  - (B) Transplant
  - (C) TCPC
  - (D) Retrograde cardioplegia infusion



61. Trusler's repair is for :-
- (A) Aortic valve
  - (B) Mitral valve
  - (C) Tricuspid valve
  - (D) Pulmonary valve
62. Which gas is used in intra aortic ballon pump ?
- (A) Hydrogen
  - (B) Carbon dioxide
  - (C) Nitogen
  - (D) Helium
63. Clubbing of finger tips are seen in :-
- (A) Suppurative lung diseases
  - (B) Acyanotic heart diseases
  - (C) Congenital heart diseases
  - (D) Mitral regurgitation
64. What is true about Thoracic Outlet syndrome ?
- (A) Surgery is always required
  - (B) Vascular symptoms are always present
  - (C) Cervical rib is always present
  - (D) Physiotherapy is always required
65. Drug eluting stents used for angioplasty of coronary arteries contains :-
- (A) Steroids
  - (B) Anticoagulants
  - (C) Immunosuppressant
  - (D) Anti-platelets

66. Which is not used during usual cardiopulmonary bypass ?
- (A) Haemodilution
  - (B) Hypothermia
  - (C) Oxygen
  - (D) Immunosuppressant
67. Usual requirement of energy for reverting ventricular fibrillation during cardiac surgery (Delivered by internal paddle) is :-
- (A) More than 500 joules
  - (B) Between 250-500 joules
  - (C) Between 50-100 joules
  - (D) Less than 30 joules
68. What is least preferred as coagulant in post-operative period ?
- (A) Protamine
  - (B) Amino-caproic acid
  - (C) Tranexcemic acid
  - (D) Aprotinin
69. Snowman sign is seen in chest x-ray of :-
- (A) All types of total anomalous pulmonary connection (TAPVC)
  - (B) Supra cardiac type of TAPVC
  - (C) Cardiac type of TAPVC
  - (D) Infra cardiac type of TAPVC

70. Digitalis toxicity is treated by all, EXCEPT :-
- (A) Stopping digoxin
  - (B) Increasing intake of Potassium
  - (C) Pacing
  - (D) Amiodarone
71. Closed mitral valvotomy is performed by :-
- (A) Right antero-lateral thoracotomy
  - (B) Left postero-lateral thoracotomy
  - (C) Midline sternotomy
  - (D) None of the above
72. Highest incidence of spinal cord injury is encountered in :-
- (A) Ascending aortic aneurysm
  - (B) Arch aneurysm
  - (C) Thoraco-abdominal aneurysm
  - (D) Abdominal aortic aneurysm
73. Square root sign is present in :-
- (A) Cardiac tamponade
  - (B) Aortic regurgitation
  - (C) Mitral regurgitation
  - (D) Constrictive pericarditis
74. What is true about small ventricular septal defects ?
- (A) Risk of developing pulmonary arterial hypertension is high
  - (B) Risk of repeated chest infection is high
  - (C) Risk of endocarditis is high
  - (D) Risk of paradoxical embolism is high

75. Which drug is similar to Isoniazid in treatment for multi drug resistance tuberculosis ?
- (A) Streptomycin
  - (B) Etionamide
  - (C) Levofloxacin
  - (D) Cyclosporine
76. Domino procedure is related to :-
- (A) Heart transplantation
  - (B) Heart and lung transplantation
  - (C) Lung transplantation
  - (D) None of the above
77. Which was the first successful cardiac surgery performed ?
- (A) Repair of atrial septal defect
  - (B) Repair of ventricular septal defect
  - (C) Repair of right ventricular injury
  - (D) Aortic valve replacement
78. Calculate cardiac output from following data :-
- |  |   |
|--|---|
| Pulmonary vascular resistance = 2 units, | Systemic vascular resistance = 20 units |
| Oxygen consumption = 150 ml/min,         | Heart rate = 100/min                    |
| End systolic volume = 70 ml,             | End diastolic volume = 120 ml           |
| Body surface area = 2 m <sup>2</sup>     | body weight = 60 Kg                     |
- (A) 3.8 liters
  - (B) 5 liters
  - (C) 2.5 liters
  - (D) 4 liters

79. Which x-ray is ordered or demonstrating minimal pneumothorax ?
- (A) X-ray chest erect in full inspiration
  - (B) X-ray chest erect in full expiration
  - (C) X-ray chest left decubitus in full inspiration
  - (D) X-ray chest right decubitus in full inspiration
80. Protamine was derived from :-
- (A) Goat sperm
  - (B) Fish sperm
  - (C) Goat lung
  - (D) Goat intestine
81. Heparin was discovered by :-
- (A) Medical student
  - (B) Physician
  - (C) Surgeon
  - (D) Neurologist
82. Empyema thoracis is treated by :-
- (A) Chest drainage by intercostal tube
  - (B) Decortication
  - (C) Thoracoplasty
  - (D) All of the above
83. First successful clinical use of extracorporeal circulation using roller pump was done by :-
- (A) Kirklin
  - (B) Lillehei
  - (C) Gibbon
  - (D) DeBakey



84. Sealed Dacron grafts means :-
- (A) Pores of graft material is sealed with gelatin/albumin to prevent blood loss
  - (B) Graft is packed in sterile sealed packing
  - (C) Pores of graft material is sealed with bone wax to prevent blood loss
  - (D) None of the above
85. Which of the following has got smallest pores ?
- (A) Knitted Dacron
  - (B) Woven Dacron
  - (C) PTFE
  - (D) Knitted polyester
86. In a case of suspected foreign body bronchus in children, best policy is :-
- (A) Keep child under observation for a week
  - (B) Emergency bronchoscopy to rule out/removal of foreign body
  - (C) Keep patient on steroids, bronchodilator and antibiotics for three days before bronchoscopy
  - (D) Keep patient on steroids, bronchodilator and antibiotics for three weeks before bronchoscopy
87. Anterior relation of the neck of first rib includes from medial to lateral side for following structure :-
- (A) Sympathetic chain
  - (B) First intercostal vein
  - (C) Superior intercostal artery
  - (D) First thoracic nerve

88. Which of the following cardiac veins does not open into coronary sinus ?
- (A) Great cardiac vein
  - (B) Anterior cardiac vein
  - (C) Posterior vein of left ventricle
  - (D) Small cardiac vein
89. Nerve-root values of phrenic nerve is :-
- (A) C2, 3, 4
  - (B) C3, 4, 5
  - (C) C2, 3
  - (D) C3, 4
90. In diaphragm, opening of aorta, oesophagus and venacava are at level of :-
- (A) T12, T10, T8 respectively
  - (B) T8, T10, T12 respectively
  - (C) T8, T9, T10 respectively
  - (D) T10, T8, T12 respectively
91. Lymph edema praecox is :-
- (A) Primary lymph edema beginning before 35 years of age
  - (B) Primary lymph edema beginning before puberty
  - (C) Secondary acquired lymph edema beginning before puberty
  - (D) Same as Milroy's disease

92. Surgical treatment of choice for varicose veins with long lasting results is :-
- (A) Stripping of saphenous venous system involved
  - (B) Sclerotherapy
  - (C) Subfacial ligation of incompetent perforators
  - (D) Open excision of superficial venous system
93. What is not true about deep vein thrombosis ?
- (A) Radionuclide phlebography is superior to contrast phlebography in iliac venous system
  - (B) Low dose heparin is adequate in management
  - (C) Surgical intervention is rarely needed
  - (D) Pulmonary embolism can occur even in absence of signs of deep vein thrombosis
94. What is not true about Dissecting aneurysms of the aorta ?
- (A) Classified by DeBakey into A, B, C type
  - (B) Medial necrosis and hypertension are the predisposing factors
  - (C) Can produce aortic regurgitation
  - (D) Pain chest is the most common symptom of presentation
95. Most common site of injury of aorta in blunt chest trauma is :-
- (A) Ascending aorta
  - (B) Arch of aorta
  - (C) Isthmus of aorta
  - (D) Descending thoracic aorta

96. What is not true about carotid body tumors ?
- (A) It is a painless mass at the common carotid bifurcation
  - (B) Chronic hypoxia is a stimulus for carotid body hyperplasia
  - (C) Sub adventitial removal of tumor is enough as media is not involved
  - (D) Segment of internal carotid can be resected without impunity
97. Treatment of choice in renal artery stenosis is :-
- (A) Percutaneous transluminal angioplasty
  - (B) Surgical revascularization
  - (C) Medical therapy - Vasodilator and ACE inhibitors
  - (D) Spleno-renal bypass
98. What is not true about Buerger's disease ?
- (A) Involves arteries and veins of medium to small size
  - (B) Digital vessels are commonly involved
  - (C) Females are immune to this disease
  - (D) Upper limb can also be involved
99. What is not true about Bronchopulmonary Segment ?
- (A) Term coined by Krammer and Glass in 1932
  - (B) There are 10 segments on right and 10 on left side (Jackson and Huber 1943)
  - (C) Brock developed the clinical aspect
  - (D) None



100. For an individual of 50 kg (110 pounds) approximate anatomical dead space and tidal volume will be :-
- (A) 110 ml and 330ml respectively
  - (B) 250 ml and 600ml respectively
  - (C) 220 ml and 500ml respectively
  - (D) 110 ml and 500ml respectively
101. Following are preferred incision for open heart surgery under cardio-pulmonary bypass EXCEPT :-
- (A) Midline mid sternotomy
  - (B) Modified Brom incision
  - (C) Right Anterolateral thoracotomy incision
  - (D) Left thoracoabdominal incision
102. Normal  $PCO_2$  of arterial blood is :-
- (A) 30 mm Hg
  - (B) 40 mm Hg
  - (C) 50 mm Hg
  - (D) 46 mm Hg
103. Foetal surgery is most rewarding in which of the following diseases :-
- (A) Atrial septal defect
  - (B) Ventricular septal defect
  - (C) Patent ductus arteriosus
  - (D) Congenital diaphragmatic hernia



104. Normal amount of fluid secreted and absorbed in pleural cavity in 24 hours is :-
- (A) 500 ml – 1000 ml
  - (B) 5000 ml – 10,000 ml
  - (C) 150 ml – 300 ml
  - (D) 40 ml – 100 ml
105. What is not associated with Thymoma ?
- (A) Red blood cells aplasia
  - (B) Systemic Lupus erythematosus
  - (C) Mega esophagus
  - (D) Mesothelioma
106. What is not associated with bronchogenic carcinoma ?
- (A) Hypercalcemia
  - (B) Cushing's syndrome
  - (C) Neuromyopathies
  - (D) Differential cyanosis
107. Most common fungal infection in tubercular lung cavity is :-
- (A) Histoplasma capsulatum
  - (B) Cryptococcus
  - (C) Aspergillus
  - (D) Candida
108. Best way of bronchial stump closure in lung resection surgery is :-
- (A) Open technique
  - (B) Cut and stitch technique
  - (C) Stapler technique
  - (D) Ligation technique

109. Management of a patient with tricuspid atresia within the first month of life may not include :-
- (A) Creation of a systemic artery-to-pulmonary artery snunt
  - (B) Observation
  - (C) Creation of a bidirectional superior cavopulmonary anastomosis
  - (D) Pulmonary artery banding
110. Complications commonly associated with the atrial (Senning and Mustard) repairs of transposition of the great arteries include all EXCEPT :-
- (A) Atrial arrhythmias
  - (B) Systemic or pulmonary venous obstruction
  - (C) Right ventricular outflow tract obstruction
  - (D) Systemic ventricular failure
111. Massive haemoptysis means loss of :-
- (A) 200 ml blood/24 hrs
  - (B) 600 ml blood/24 hrs
  - (C) 1000 ml blood/24 hrs
  - (D) 1250 ml blood/24 hrs
112. What is not a premalignant condition of carcinoma oesophagus ?
- (A) Barrets oesophagus
  - (B) Caustic oesophageal stricture
  - (C) Plummer Wilson syndrome
  - (D) None

113. Not true about myasthenia gravis :-

- (A) 10-15% patient have Thymoma
- (B) Prognosis is good if Thymoma is not present
- (C) There is proximal symmetric involvement of extremity muscle
- (D) Thymectomy is not recommended for generalized form

114. Not true about cardiac tamponade :-

- (A) Intrapericardial pressure rises above the level of right atrial and right ventricular diastolic pressure
- (B) Pulsus paradoxus is present
- (C) Electrical alternans is present
- (D) Aspiration should be done only after confirming diagnosis by right heart catheterization

115. In thermo dilution technique for measuring cardiac output :-

- (A) Cold saline is injected into peripheral vein
- (B) Cold saline is injected into right atrium
- (C) Cold saline is injected into pulmonary artery
- (D) Aorta

116. The commonest power source in pacemaker is :-

- (A) Lithium iodine
- (B) Lithium lead sulphid
- (C) Lithium silver chromate
- (D) Lithium copper sulphide

117. Reverse splitting of second heart sound is seen in all EXCEPT :-

- (A) Left bundle branch block
- (B) Aortic stenosis
- (C) Hypertrophic cardiomyopathy
- (D) VSD

118. In aortic valve surgery for aortic regurgitation which route of cardioplegia is not possible ?

- (A) Aortic root cardioplegia
- (B) Retrograde cardioplegia
- (C) Direct coronary ostial cardioplegia
- (D) Retrograde warm blood cardioplegia

119. Which of the following is recommended as surgical resection of lung abscess ?

- (A) Segmentectomy
- (B) Lobectomy
- (C) Pneumonectomy
- (D) Wedge resection

120. For energy requirement, Cardiac muscle utilizes mainly :-

- (A) Glucose
- (B) Fatty acids
- (C) Glycogen
- (D) Essential amino acids

Space for Rough Work