

CARDIO THORACIC SURGERY**PAPER-I**Time: 3 hours
Max. Marks:100

CTS/J/19/04/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) Embryology of atrial septum. 4+3+3
b) Classification of atrial septal defects.
c) Management of superior vena cava type of ASD.
2. a) Draw oxygen dissociation curve and discuss its clinical importance in cardiac surgery 5+5
b) Discuss various modes of ventilation.
3. a) Describe in brief various parts of cardiac cycle with the help of a diagram. 5+5
b) Describe echocardiographic and catheterization findings of constrictive pericarditis.
4. a) Describe various types of pumps used in cardiopulmonary bypass and their merits and demerits. 5+5
b) Different pH management strategies during hypothermic circulatory arrest and their merits and demerits.
5. a) Embryology of diaphragm. 4+6
b) Definition, diagnosis and management of Morgagni hernia.
6. a) Anatomy of aortic root. 5+5
b) Classification and management of ruptured Sinus of Valsalva Aneurysm.
7. a) Development of aortic arches. 6+4
b) Diagnosis and management of double aortic arch.

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8. a) Histopathological classification of pulmonary arterial hypertension (PAH). 5+5
b) Classify Drugs used for management of PAH and their mechanism of action.
9. a) Heparin: Origin, mechanism of action, doses for cardiopulmonary bypass. 5+5
b) Enumerate various coagulation factors and describe role of vitamin K antagonists as an anticoagulant.
10. a) Etiopathogenesis of acute rheumatic fever. 3+3+4
b) Clinical and laboratory diagnosis of acute rheumatic fever.
c) Prophylaxis for rheumatic carditis.

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