

**Write short notes on:**

1. Discuss embryology, anatomy and physiology of interventricular septum. 3+4+3
2. Current status of prophylaxis for infective endocarditis. 10
3. Prevention of rheumatic fever and rheumatic heart disease. 10
4. a) Newer pulmonary vasodilators, 5+5  
b) Genetic testing in cardiomyopathies.
5. Fontan operation: Long term survival and complications. 3+7
6. Impact of fetal echocardiography on critical congenital heart disease. 10
7. a) Various types of clinical trials. 5+5  
b) Right isomerism.
8. Timing and type of surgical procedure for infants with complete transposition of great arteries: 5+5
9. Complete heart block in neonates: Diagnostic work up and management. 5+5
10. a) Causes of secondary hypertension in children, 3+4+3  
b) Indications for intravascular stents in children, and  
c) Coronary abnormalities in pulmonary atresia with intact ventricular septum.