

(LO 005)

FEBRUARY 2019

Sub. Code: 1421

**D.M. – CARDIOLOGY**

**Paper I – BASIC SCIENCES**

*Q.P. Code: 161421*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the embryology and anatomy of the interatrial septum. Discuss the echocardiographic evaluation the of Inter Atrial septum with special relevance to device closure.
2. Describe the ultrastructure of myocyte and the mechanics of myocardial contraction.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Reverse Cholesterol Transport.
2. Genetics in Arrhythmogenic Right ventricular cardiomyopathy.
3. High altitude cardiovascular adaptation.
4. Ryanodine receptors.
5. Pathophysiology of ventricular hypertrophy.
6. P Value and Odds ratio.
7. Scimitar syndrome.
8. Dual AV nodal physiology.
9. Venturi effect and its role in cardiology.
10. Electrophysiology of Atrial Flutter.

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