

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**(Deemed to be University)**  
**M.Sc(Cardiac Cath and Intervention Technology) DEGREE EXAMINATION**  
**– December 2021**  
**First Year**  
**X-RAY PHYSICS, INSTRUMENTATION, HARDWARE'S AND**  
**STERILITY**

Three Hours

Maximum: 100 marks

**I. Write an Long essay on:** **(3 x 20 = 60)**

1. What are drug-coated stents?
2. Elaborate contrast agents.  
Describe in detail the setting of a cardiac cath lab about room size ,geometry and table
3. other equipments and quality assurance.

**II. Write short essay on :** **(4 x 10 = 40)**

4. Seldingers technique
5. Revascularization PTCA & CABG
6. Management of hypotension
7. Preparation of catheterization laboratory for diagnostic coronary angiography

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