

Question Paper

Exam Date & Time: 18-Feb-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2019
SUBJECT: BCVT 301 - BASICS IN CARDIAC CATH AND HARDWARES
(2016 SCHEME)

Monday, February 18, 2019 (14.00 - 16.00)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

- 1) Discuss the indications and contraindication for diagnostic cardiac cath procedure (10)
- 2) Discuss the various methods of cardiac output measurements by cardiac catheterization (10)

- 3A) Discuss the vascular access by radial approach (5)
- 3B) Write a note on Inotropic agents (5)
- 3C) Discuss the different radiation doses in detail (5)
- 3D) Write a note on PTCA wires (5)

- 4A) Bipolar pacing leads (2)
- 4B) Define SVR and write the formula for the same (2)
- 4C) Define droplet infections (2)
- 4D) Define guiding catheters (2)
- 4E) Give the formula for Qp and Qs (2)

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Question Paper

Exam Date & Time: 21-Feb-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2019
SUBJECT: BCVT 305 - CONGENITAL HEART DISEASE II
(2016 SCHEME)
Thursday, February 21, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Describe brief classification and management in tricuspid atresia. (20)
- 2) Describe pathophysiology, clinical presentation and complications of RSOV. (20)
- 3A) Describe ECG, Xray and echocardiographic evaluation of CcTGA. (10)
- 3B) Explain the classification of MAPCAs. (10)
- 4A) Describe cyanotic spell. (5)
- 4B) Enumerate the indications for catheterization in TOF. (5)
- 4C) Enumerate the prerequisites for Fontan surgery. (5)
- 4D) Explain management of truncus arteriosus in brief. (5)
- 4E) Enumerate the common coronary anomalies associated with CHD. (5)
- 4F) Describe Shone's complex. (5)
- 5A) Define cyanosis. (2)
- 5B) Write the Xray findings in TOF. (2)
- 5C) Write the ECG findings in ALCAPA. (2)
- 5D) Write the great artery relation in TGA. (2)
- 5E) Define vascular sling. (2)

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