

Question Paper

Exam Date & Time: 01-Jun-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE 2019
SUBJECT: BCVT 302 - CLINICAL APPLICATIONS OF ECHO
(2016 SCHEME)
Saturday, June 01, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1A) Describe embryology, pathophysiology and clinical outcome in complete transposition of great arteries. (20)
- 1B) Describe various echocardiographic methods of left ventricular systolic function assessment. (20)
- 2A) Explain brief echocardiographic assessment in aortic regurgitation. (10)
- 2B) Describe classification and echocardiographic findings of hypertrophic cardiomyopathy. (10)
- 3A) Describe myocardial contrast echocardiography. (5)
- 3B) Describe ventricular dependence in brief. (5)
- 3C) Describe echocardiography in takotsubo cardiomyopathy. (5)
- 3D) Explain normal and abnormal patterns of pulmonary valve m-mode. (5)
- 3E) Describe PISA method. (5)
- 3F) Describe echocardiographic findings in ALCAPA. (5)
- 4A) Define perimembranous VSD. (2)
- 4B) Define contrast resolution. (2)
- 4C) Enumerate any two uses of tissue Doppler imaging. (2)
- 4D) Enumerate any two contra indications for TEE. (2)
- 4E) Define annualr paradoxus. (2)

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Question Paper

Exam Date & Time: 06-Jun-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE 2019
SUBJECT: BCVT 304 - CARDIAC CATH AND INTERVENTION
(2016 SCHEME)
Thursday, June 06, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1A) Explain LV angiography in the assessment of HOCM. Discuss the percutaneous transluminal septal myocardial ablation in detail. (20)
- 1B) Write the indications, contraindications, procedure and complications in primary PCI. Explain the role of thrombus aspiration. (20)
- 2A) Discuss the strategies in left main stenting. (10)
- 2B) Write a note on IVC filter and its role in peripheral artery disease. (10)
- 3A) Write the ACC/AHA guidelines for balloon mitral valvotomy. (5)
- 3B) Write the pitfalls of non-invasive pressure measurements. (5)
- 3C) Write a note on kissing stent technique in bifurcation stenting. (5)
- 3D) Explain pericardiocentesis in detail. (5)
- 3E) Discuss the femoral artery puncture site complications. (5)
- 3F) Explain left heart catheterization. (5)
- 4A) Define cutting balloons. (2)
- 4B) Mention the properties of coronary catheters. (2)
- 4C) Define type A coronary lesion. (2)
- 4D) Define loss of capture and sensing. (2)
- 4E) Give the Duke classification for bifurcation lesion. (2)

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Question Paper

Exam Date & Time: 10-Jun-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE 2019
SUBJECT: BCVT 306 - CLINICAL CARDIOLOGY
(2016 SCHEME)
Monday, June 10, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain clinical evaluation of palpitation in brief. (10)
- 2) Describe normal and abnormal pattern of jugular venous pulse. (10)
- 3A) Describe central cyanosis. (5)
- 3B) Describe diastolic heart sounds. (5)
- 3C) Enumerate etiology of continuous murmur. (5)
- 3D) Enumerate X-ray findings in left atrial enlargement. (5)
- 4A) What is Triad of myxoma? (2)
- 4B) Define pulse. (2)
- 4C) Define phlebotomy. (2)
- 4D) Enumerate any two causes for single S2. (2)
- 4E) Define pulmonary plethora. Give two examples. (2)

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