

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

Thursday, December 12, 2019 (14.00 - 16.00)

Marks: 50 Duration: 120 mins. Answer all the questions. 1) Explain the different manufacturing designs and modules in stents. (10)2) Discuss on ionic and non-ionic contrast agents and its therapeutic uses. (10)Systemic vascular resistance (5) 3A) 3B) Write a note on steroids. (5) 3C) Discuss the types of embolic protection devices. (5) Write the ACC/AHA indications for coronary angiogram. 3D) (5) Define Air kerma. (2) 4A) 4B) Draw a labelled diagram of image intensifier. (2) Mention the drugs used in drug eluting stents. 4C) (2) 4D) Properties of CTO wires. (2) Define fumigation principles. (2) 4E) ----End-----



FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019 SUBJECT: BCVT 303 - MYOCARDIAL, PERICARDIAL AORTIC AND ISCHEMIC HEART DISEASES (2016 SCHEME)

Friday, December 13, 2019 (14.00 - 17.00)

Marks: 100 Duration: 180 mins.

Answer all the questions. Explain hemodynamic, clinical findings and diagnostic modalities in pericardial tamponade. (20)1B) Explain diagnosis of LV diastolic dysfunction in subject with depressed ejection fraction. (20)2A) Describe various diagnostic modalities for assessing ACS. (10)Explain endomyocardial fibrosis. (10)2B) 3A) Explain role of Valsalva maneuver in assessing in diastolic dysfunction. (5) Write a short note on amyloidosis. 3B) (5) 3C) Write role of color m- mode in assessing diastolic dysfunction. (5) Explain assessment of LV filling pressure in MS. 3D) (5) 3E) (5) Explain GpIIbIIIa inhibitor. 3F) (5) Explain various echo findings in ARVD. 4A) (2) Define stunned myocardium. 4B) (2) What is Phlebotomy? 4C) (2) Write Cardiac causes of diastolic dysfunction. 4D) (2) Mention two Roles of platelets in ACS. 4E) (2) Define Annular reverses.

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FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019 SUBJECT: BCVT 305 - CONGENITAL HEART DISEASES - II (2016 SCHEME)

Saturday, December 14, 2019 (14.00 - 17.00)

Marks: 100 Duration: 180 mins.

Answer all the questions. 1) Explain Embryology, Pathophysiology, ECG and Xray findings of complete transposition of great arteries. (20)Explain embryological basis, pathophysiology, adult clinical presentation of CoA. (20)2) Explain pathophysiology, Clinical presentation of RSOV. (10)3) Explain pathophysiology and classification of pulmonary atresia with intact ventricular septum. 4) (10)Explain the embryology and components of TOF. 5A) (5) Describe the ECG and Xray findings of CcTGA. 5B) (5) Describe Potts shunting in detail. 5C) (5) Describe echocardiographic evaluation of truncus arteriosus in brief. 5D) (5) Explain the coronary anomalies associated with TOF and TGA. 5E) (5) Describe clinical findings and ECG changes associated with ALCAPA. 5F) (5) Write the Xray findings in CoA. (2) 6A) Write the ECG findings in TOF. 6B) (2) Enumerate any two conditions with duct dependent pulmonary circulation. 6C) (2) Define obligatory shunting. 6D) (2) Define RV dependent coronary circulation. (2) 6E)

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FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019 SUBJECT: BCVT 307 - VALVULAR HEART DISEASE (2016 SCHEME)

Monday, December 16, 2019 (14.00 - 17.00)

Marks: 100 Duration: 180 mins. Answer all the questions. Describe indications, detailed procedure and complications of BMV. (20)1) Describe pathophysiology, Clinical presentation, ECG and Echo findings of aortic stenosis. (20)2) Explain Jones criteria in the diagnosis of rheumatic fever. 3) (10)4) Explain pathophysiology and clinical findings in acute severe mitral regurgitation. (10)Enumerate the differences between organic and functional TR. 5A) (5) 5B) Explain the pathophysiology of acute severe aortic regurgitation. (5) Describe the pathophysiology and clinical findings of pulmonary stenosis. 5C) (5) 5D) Describe complications of infective endocarditis. (5) Enumerate the ACC/AHA indications for mitral valve replacement in mitral stenosis. (5) 5E) 5F) Describe the severity assessment of mitral stenosis by echocardiography. (5) What is Ross procedure? 6A) (2) Write any two limitations of PHT. (2) 6B) 6C) Define aliasing. (2) Write the uses of colour m-mode in aortic regurgitation. 6D) (2) 6E) Enumerate any two differences between physiologic and pathologic mitral prosthetic valve (2) regurgitation.

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