

Question Paper

Exam Date & Time: 26-Aug-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - AUGUST 2019
SUBJECT: BCVT 302 - CLINICAL APPLICATIONS OF ECHO
(2016 SCHEME)
Monday, August 26, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1A) | Explain classification, clinical presentation and echocardiographic evaluation of patent ductus arteriosus. | (20) |
| 1B) | Describe various echocardiographic methods of right ventricular function assessment. | (20) |
| 2A) | Explain pathophysiology and echocardiographic assessment of aortic stenosis. | (10) |
| 2B) | Explain various echocardiographic methods of assessment of LV dyssynchrony. | (10) |
| 3A) | Describe tissue annular velocity imaging in brief. | (5) |
| 3B) | Enumerate the advantages of speckle tracking echocardiography. | (5) |
| 3C) | Describe echocardiography in cardiac tamponade. | (5) |
| 3D) | Enumerate M-mode echocardiographic patterns in reduced LV ejection fraction. | (5) |
| 3E) | Describe echocardiographic assessment of LVEDP. | (5) |
| 3F) | Describe echocardiographic findings in LTGA. | (5) |
| 4A) | Define Gerbodes defect. | (2) |
| 4B) | Define temporal resolution. | (2) |
| 4C) | Enumerate any two uses of contrast echocardiography. | (2) |
| 4D) | Define stunned myocardium. | (2) |
| 4E) | Define strain rate. | (2) |

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Question Paper

Exam Date & Time: 27-Aug-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - AUGUST 2019
SUBJECT: BCVT 304 - CARDIAC CATH AND INTERVENTION
(2016 SCHEME)
Tuesday, August 27, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1A) Discuss in detail the procedure and hardware's for LV angiography, and write the severity assessment for mitral and aortic regurgitation. (20)
- 1B) Write the indications, contraindications, hardware's and procedure for interventional atrial septal defect closure. (20)
- 2A) Write the ACC/AHA guidelines for CRT implantation. (10)
- 2B) Write a note on types of embolic protection devices. (10)
- 3A) Write a note on myocardial blush grade. (5)
- 3B) Mention the Sanborn coronary bifurcation classification. (5)
- 3C) Write the indications for angiography in TOF. (5)
- 3D) Write a note on IABP. (5)
- 3E) Discuss the renal artery stenting. (5)
- 3F) Discuss the angiographic procedure for peripheral angiography. (5)
- 4A) Define ablation and mapping. (2)
- 4B) Mention four right heart catheters. (2)
- 4C) Class III indications for PPI. (2)
- 4D) Define no reflow phenomenon. (2)
- 4E) Define IVUS and OCT. (2)

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Question Paper

Exam Date & Time: 24-Aug-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER C.V.T/B.Sc. R.T./B.Sc. R.R.T. & D.T. DEGREE EXAMINATION - AUGUST 2019
SUBJECT: PSYC 402 - CLINICAL PSYCHOLOGY
(2016 SCHEME)

Saturday, August 24, 2019 (14.00 - 16.00)

Answer ALL the questions.

Marks: 50

Duration: 120 mins.

Write essay on:

- 1) Describe normality and abnormality enumerating the various models. (10)
- 2) Explain anxiety disorders in detail. (10)

3) Write a short note on:

- 3A) Mental Retardation (5)
- 3B) Histrionic personality disorder (5)
- 3C) ICD criteria for alcohol dependence syndrome (5)
- 3D) Social Phobia (5)

4) Write very short answers on:

- 4A) Agnosia (2)
- 4B) Aversive therapy (2)
- 4C) Types of coping (2)
- 4D) Case history (2)
- 4E) Psychological rehabilitation (2)

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