

Question Paper

Exam Date & Time: 16-May-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIO VASCULAR TECHNOLOGY DEGREE EXAMINATION - MAY 2022
SUBJECT: BCVT 302 - CLINICAL APPLICATIONS OF ECHO
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Enumerate the causes of PAH. Explain the various methods of pulmonary pressure assessment. (20)
- 2) Explain pathophysiology, presentation and diagnostic modalities of Idiopathic DCM. (20)
- 3) Describe anatomical classification, pathophysiology and diagnosis of Coarctation of aorta. (10)
- 4) Explain role of TEE in evaluation of mitral valve disease. (10)
- 5A) With the help of diagram explain M -mode in below mentioned condition: (5)
i) Severe MS ii) LBBB iii) HOCM iv) Severe AR
- 5B) Explain the severity assessment of Mitral stenosis. (5)
- 5C) Explain clinical features of Rheumatic fever. (5)
- 5D) Write a short note on LV non compaction. (5)
- 5E) Explain echocardiography in DORV. (5)
- 5F) Describe use of TDI in the assessment LV diastolic dysfunction. (5)
- 6A) Define Proximal isovelocity surface area (PISA). (2)
- 6B) What are the components of sinus venosus ASD? (2)
- 6C) Write any **FOUR** causes of coronary sinus dilatation. (2)
- 6D) How do you grade severity of Aortic regurgitation by color M-mode? (2)
- 6E) Define strain and strain rate. (2)

-----End-----

Question Paper

Exam Date & Time: 18-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. RESPIRATORY THERAPY / B.Sc. RENAL REPLACEMENT THERAPY & DIALYSIS
TECHNOLOGY / B.Sc. CARDIO VASCULAR TECHNOLOGY / B.Sc. EMERGENCY MEDICAL TECHNOLOGY/VIII
SEMESTER BOT DEGREE EXAMINATION - MAY 2022
SUBJECT: PSYC 402 - CLINICAL PSYCHOLOGY
(2016/2019 SCHEME)

Marks: 50

Duration: 120 mins.

Write essays on :

- 1) Elaborate on the different perspectives of the concepts of normality and abnormality (10)
- 2) Explain in detail, any two techniques used in behaviour therapy (with examples) (10)

3. Write short notes on:

- 3A) Psychotic Disorders (5)
- 3B) Supportive Psychotherapy (5)
- 3C) Psychodynamic model of mental disorders (5)
- 3D) Impact of stress on mental illness. (5)

4. Write very short notes on:

- 4A) Coping (2)
- 4B) Anxiety (2)
- 4C) Borderline personality disorder (2)
- 4D) Counselling (2)
- 4E) Unconditional positive regard (2)

-----End-----

Question Paper

Exam Date & Time: 20-May-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - MAY 2022
SUBJECT: BCVT 304 - CARDIAC CATH AND INTERVENTION
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1A) Define type C coronary lesion and explain the role of rotablation in the treatment of calcific lesion (20)
- 1B) Write the indications, contraindications and procedure of carotid artery stenting and explain the role of embolic protection devices (20)
- 2A) Discuss the advantages and uses of drug eluting stents over bare metal stents (10)
- 2B) Write the indications, contraindications, hardwares and procedural details for device closures of ventricular septal defects (10)
- 3A) Explain the benign and malignant coronary anomalies (5)
- 3B) Write a note on cardiac assist devices (5)
- 3C) Explain the procedure of aortic angiography (5)
- 3D) Write a note on TIMI grade flow (5)
- 3E) Discuss the material related complications in PCI (5)
- 3F) Write a detailed note on balloon flotation catheters (5)
- 4A) Name four CTO wires (2)
- 4B) Give two indications for ERI in pacemakers (2)
- 4C) Define Medina score for bifurcation lesion (2)
- 4D) Define Brockenbrough phenomenon (2)
- 4E) Define slow flow (2)

-----End-----

Question Paper

Exam Date & Time: 23-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. CVT DEGREE EXAMINATION - MAY 2022
SUBJECT: BCVT 306: CLINICAL CARDIOLOGY
(2016 SCHEME)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

- | | | |
|-----|---|------|
| 1) | Describe pathophysiology and clinical evaluation of syncope | (10) |
| 2) | Describe pathophysiology and clinical presentation of acute myocardial infarction | (10) |
| 3A) | Describe hemoptysis | (5) |
| 3B) | Describe cardiac percussion | (5) |
| 3C) | Explain causes for diastolic murmurs | (5) |
| 3D) | Enumerate X-Ray findings in left ventricular enlargement | (5) |
| 4A) | Define pulsus bisferiens. | (2) |
| 4B) | Enumerate causes for prominent v wave in JVP | (2) |
| 4C) | Define differential cyanosis with an example | (2) |
| 4D) | What is the significance of A2-OS gap? | (2) |
| 4E) | Define pulmonary redistribution. | (2) |

-----End-----