

Question Paper

Exam Date & Time: 22-Nov-2021 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - NOVEMBER 2021
SUBJECT: BCVT 202 - CARDIAC PACEMAKER AND DEFIBRILLATORS
(2016 RV SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Explain NBG code system for permanent pacemaker implantation. | (10) |
| 2) | Discuss in detail the acute and chronic complications of permanent pacemaker implantation. | (10) |
| 3A) | Explain Strength - Duration Curve and mention the importance of Impedance in the system. | (5) |
| 3B) | Write a note on rate adaptive pacemakers. | (5) |
| 3C) | What are the advantages and disadvantages of DDDR mode? | (5) |
| 3D) | Write the Indications for biventricular pacing. | (5) |
| 4A) | Uses of Magnet in ICD. | (2) |
| 4B) | Write two difference between Unipolar & Bipolar pacing. | (2) |
| 4C) | Define base rate and upper rate behaviour. | (2) |
| 4D) | What is Refractory Period? | (2) |
| 4E) | Define stimulation and threshold. | (2) |

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Question Paper

Exam Date & Time: 23-Nov-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - NOVEMBER 2021
SUBJECT: BCVT 204 - CONGENITAL HEART DISEASE - I
(2016 RV SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1A) | Explain embryology, classification and pathophysiology of VSD in detail. | (20) |
| 1B) | Describe classification, pathophysiology and role of echocardiography in TAPVC. | (20) |
| 2A) | Describe segmental approach to congenital heart disease in detail. | (10) |
| 2B) | Explain clinical presentation, natural history and echo findings in Ebstein's anomaly. | (10) |
| 3A) | Briefly explain about the prevalence and pathophysiology of PAPVC. | (5) |
| 3B) | Discuss the various types of mitral inflow obstruction in detail. | (5) |
| 3C) | Describe the echocardiographic evaluation of AP window. | (5) |
| 3D) | Explain the types of Cor-triatrimum with the neat labelled diagram in detail. | (5) |
| 3E) | Explain the Classification and clinical findings of ASD. | (5) |
| 3F) | Explain the echocardiographic evaluation of PDA. | (5) |
| 4A) | Write the types of sinus venosus ASD. | (2) |
| 4B) | Name the leaflets of complete AVCD with the diagram. | (2) |
| 4C) | Write the components of right isomerism. | (2) |
| 4D) | Define straddling. | (2) |
| 4E) | List the X-ray findings of TAPVC. | (2) |

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