

Question Paper

Exam Date & Time: 31-Aug-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - AUG/SEPT 2019
SUBJECT: BCVT 202 - CARDIAC PACEMAKERS AND DEFIBRILLATORS
(2016 SCHEME)
Saturday, August 31, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Draw the diagram wherever necessary.

- 1) Write the indications for Temporary Cardiac Pacemakers (10)
- 2) Discuss the procedural details and programming parameters in single chamber pacemakers. (10)
- 3A) Write a note on rate adaptive pacemakers. (5)
- 3B) Write a note on Pacemaker mediated tachycardia (PMT). (5)
- 3C) What are the components of implantable cardioverter defibrillators(ICD)? (5)
- 3D) What are the procedural complications of permanent pacemaker implantation? (5)
- 4A) Define Oversensing. (2)
- 4B) Write the contraindications for acquired AV blocks in permanent pacemakers. (2)
- 4C) Power source of pulse generator (2)
- 4D) Write the nomenclature of DDD mode. (2)
- 4E) What are active fixation leads? (2)

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Question Paper

Exam Date & Time: 30-Aug-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T. / B.Sc. H.I.M. / B.Sc. E.S.S.
DEGREE EXAMINATION - AUG/SEPT 2019
SUBJECT : GENERAL PSYCHOLOGY/ PSYCHOLOGY (PSYC 202)
(2016/2016 RV SCHEME)
Friday, August 30, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Explain the types and any two theories of Emotion. | (10) |
| 2) | Define Perception. Describe the laws of perception with examples. | (10) |
| 3A) | Observation method | (5) |
| 3B) | Long Term Memory | (5) |
| 3C) | Any five Defense mechanisms | (5) |
| 3D) | Moral development | (5) |
| 4A) | Reinforcement | (2) |
| 4B) | Flynn effect | (2) |
| 4C) | Availability heuristic | (2) |
| 4D) | Projective test | (2) |
| 4E) | Primary motives | (2) |

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Question Paper

Exam Date & Time: 03-Sep-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - AUG/SEPT 2019
SUBJECT: BCVT 204 - CONGENITAL HEART DISEASE - I
(2016 SCHEME)
Tuesday, September 03, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions. Draw the diagram wherever necessary.

- 1A) Explain pathophysiology, clinical presentation, ECG, X-ray and echo findings of Coarctation of Aorta. (20)
- 1B) Explain pathophysiology, ECG, X-ray and echo findings of PDA. (20)
- 2A) Explain types of ASD's with ECG and Echo findings. (10)
- 2B) Explain pathophysiology, clinical findings and diagnosis of A-P window. (10)
- 3A) Classify the types of anomalous pulmonary venous connection . (5)
- 3B) Write a brief note on Ebstein's Anomaly. (5)
- 3C) Write a note on parachute mitral valve. (5)
- 3D) Define straddling. Describe Rastelli classification of complete endocardial cushion defect. (5)
- 3E) Explain classification and clinical presentation of VSD. (5)
- 3F) Define visceral situs, describe abdominal situs identification by echocardiography in brief. (5)
- 4A) Define Gerbodes defect. (2)
- 4B) Define admixture physiology. (2)
- 4C) Define unbalanced Atrio Ventricular Septal Defect. (2)
- 4D) Describe surgical option for Intracardiac Total Anomalous Pulmonary Venous Connection. (2)
- 4E) Enumerate echo differences between cor triatriatum and supra Valvular mitral ring. (2)

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