

DECH

ANDHRA PRADESH PARAMEDICAL BOARD, VIJAYAWADA  
COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, JANUARY, 2019  
DIPLOMA IN ECG TECHNICIAN COURSE

PAPER- I

Electro Physiology Operation & Maintenance of ECG Machines

Time: 3 Hours

Total Marks:80

Answer any **TEN** questions

All Questions carry equal marks

Write the entire answer to a question at one place only but not in different stages

1. Draw a normal ECG and label the parts. Write how each part is produced. Write the normal values of different waves & intervals. (4+2+2)
2. Write short notes on a) Einthoven Law b) Hexaxial system (4+4)
3. What is myocardial infarction? What are the ECG features of acute MI? Draw a diagram of an ECG showing MI. Mention which leads will show the changes in different locations of MI. (2+2+2+2)
4. Describe briefly how to read an ECG. Write a report of the findings of an ECG showing old anterior MI. (4+4)
5. A patient using atenolol came with complaint of giddiness & syncope from two days. His Pulse rate is 30 per minute and BP is 80/60.  
Mention two likely arrhythmias that can cause this. Draw an ECG showing one of them. Mention the immediate treatment to be given in the ICCU. (2+3+3)
6. What is ventricular tachycardia? Draw an ECG showing VT. Mention two IV drugs can be used to treat VT. Write the treatment of VT in a very sick patient with BP of 60/40. (1+3+2+2)
7. Write short notes on a) ECG artefacts b) Maintenance of ECG machines
8. Write short notes on a) PSVT (paroxysmal supraventricular tachycardia or AVNRT (AV Nodal Re-entry Tachycardia) – ECG features & treatment b) Calculation of heart rate from ECG (4+4)
9. What are the 3 degrees of AV block? Draw ECGs showing them. Mention two common causes. (3+3+2)
10. Describe briefly how to diagnose chamber hypertrophy on ECG. Draw ECG diagrams showing hypertrophy of each of the four chambers. (4+4)
11. Write short notes on a) Alternate or Non-conventional ECG leads (3) b) Technical dextrocardia & True dextrocardia - what they mean, how to differentiate & ECG diagram (2+1+2)
12. Write short notes on a) Emergency treatment of acute Myocardial Infarction in the ICCU b) Draw ECGs of Left & Right Bundle branch blocks. Give one cause for each of them. (3+3+2)