

- Q.27 What are Ultrasonic Therapy. Explain Block diagram of Ultrasonic therapy unit  
 Q.28 What are Stimulator. Explain Bladder stimulator.  
 Q.29 Explain working principle of surgical diathermy unit with block diagram.  
 Q.30 Explain working principle of Autoclave  
 Q.31 Explain the production of microwave  
 Q.32 What are Autoclave. Explain application and use of Autoclave.  
 Q.33 What are magnetic stimulator. How it help in removing the pain from body.  
 Q.34 Explain the circuit description of Microwave Diathermy  
 Q.35 Explain Capacitor plate method application of short wave diathermy

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)  
 Q.36 Discuss ultrasonic therapy. Explain block diagram of ultrasonic therapy machine  
 Q.37 Write a note on the following.  
     a) Components of Autoclave.  
     b) Heat therapy  
 Q.38 Draw and explain working principle of surgical diathermy analyses with block diagram.

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**4th Sem / Medical Electronics**  
**Subject:- Physiotherapy & Operation Theatre**  
**Equipment (POTE)**

Time : 3Hrs. M.M. : 100

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The correct full form of CRO is  
     a) Common ray oscilloscope  
     b) Common ray oscillator  
     c) Cathode ray oscillator  
     d) All of these  
 Q.2 How many type of Electro Surgery technique  
     a) Monopolar                  b) Bipolar  
     c) Both A & B                  d) None  
 Q.3 Uses of diathermy  
     a) Pain relief                  b) Improves circulation  
     c) both A & B                  d) None of these  
 Q.4 What property of sound wave act like principle of ultrasound  
     a) Reflection & Refraction  
     b) Reflection  
     c) Refraction  
     d) Propagation

- Q.5 High frequency heat therapy is based on  
a) Monopole molecules  
b) Dipole molecules  
c) Triple molecules  
d) None of these
- Q.6 Which of the Diathermy machine is good for deep tissue healing  
a) Short wave            b) Ultrasound  
c) Cold compress        d) Electrical impulse
- Q.7 What does CCTV stand for  
a) Closed circuit technology  
b) Closed common technology  
c) Closed common television  
d) Closed circuit television
- Q.8 Surgical Diathermy Machine consist of  
a) Low Frequency        b) High frequency  
c) Both A & B            d) None of these
- Q.9 The pressure chamber which are used to carryout process at high temperature & pressure  
a) Oven                    b) Microwave  
c) Autoclave              d) Hot air oven
- Q.10 Which deep heat therapy  
a) Short wave diathermy  
b) Ultrasound therapy  
c) Microwave therapy  
d) All of these

## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What are Attenuation.  
Q.12 Define Electric Stimulator.  
Q.13 Use of Microwave Diathermy.  
Q.14 Draw square Waveform.  
Q.15 What are Pulse.  
Q.16 What are Magnetron.  
Q.17 Define Coagulation.  
Q.18 Full form of CCTV.  
Q.19 What are Stimulator.  
Q.20 Name Two Surgical Instruments.

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What are Microwave Diathermy. Explain Microwave Diathermy technique.  
Q.22 Explain different type of electrode used in Electro surgical diathermy.  
Q.23 Explain the components of autoclaves  
Q.24 Explain the Magnetic stimulator.  
Q.25 What are Electrotherapy. Explain Galvanic current wave form.  
Q.26 What are Microwave Diathermy. Explain circuit diagram of microwave diathermy