

- 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.
- Components of Autoclave.
 - 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
- Common ray oscilloscope
 - Common ray oscillator
 - Cathode ray oscillator
 - All of these
- Q.2 How many type of Electro Surgery technique
- Monopolar
 - Bipolar
 - Both A & B
 - None
- Q.3 Uses of diathermy
- Pain relief
 - Improves circulation
 - both A & B
 - None of these
- Q.4 What property of sound wave act like principle of ultrasound
- Reflection & Refraction
 - Reflection
 - Refraction
 - Propagation

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

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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

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