

- Q.32 Explain Heat Therapy.
- Q.33 What are Ultrasonic Wave. Explain the ultrasonic wave generator with block diagram.
- Q.34 What are surgical diathermy machine. Explain it.
- Q.35 Explain short wave diathermy technique.

SECTION-D

Note: Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Describe Autoclave. Explain working principle and application autoclave.
- Q.37 Write a Note on the following
a) Electrotherapy b) Ultrasonic Therapy Unit
- Q.38 What are surgical diathermy machine. Explain its working principle of surgical diathermy machine.

No. of Printed Pages : 4
Roll No.....

123242/33242

4th Sem Medical Electronics Subject : Physiotherapy & Operation Theatre Equipments (POTE)

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Where is the anesthesia injected
a) Thoracic canal b) Lumbar canal
c) Sacral canal d) Coccyx canal
- Q.2 What is the common temperature used in autoclaves?
a) 121°C b) 109°C
c) 135°C d) 142°C
- Q.3 Pasteurization is
a) A few spring bacteria get killed by pasteurization
b) Milk is heated to 70°C & held for 30 minutes.
c) milk is rapidly cooled to 0°C
d) It is done for checking milk born infection.
- Q.4 Ultrasound diathermy are used for
a) Strain b) Muscular spasms
c) Joints contractures d) All of these
- Q.5 What is the inner surface of autoclaves made up
a) Mild steel b) Stainless steel

- c) Copper d) Aluminium
- Q.6 Physiotherapy is the form of
- a) Heat b) Energy
- c) Radiation d) All of these
- Q.7 Which of the Diathermy machine is good for deep tissue healing.
- a) Short wave b) Ultrasound
- c) Cold compress d) Electrical impulse
- Q.8 Removal and killing of all organism are known as
- a) Destruction b) Sterilization
- c) Pasteurization d) None of these
- Q.9 Ultrasound are applied for obtaining image
- a) Liver b) Spleen
- c) Kidney d) All of these
- Q.10 This can be side effect of haemodialysis
- a) Nausea b) Weakness
- c) Cramp d) All of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What do you mean by Autoclave.
- Q.12 What are magnetic stimulator.
- Q.13 Sterilization are used to _____.
- Q.14 Full Form SWD.
- Q.15 What do you mean by CCTV.
- Q.16 What are Physiotherapy.

- Q.17 Full form of TENS.
- Q.18 Name the instrument used to measure the heart electric wave.
- Q.19 What are galvanic current.
- Q.20 Define Wavelength.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain the components of autoclaves.
- Q.22 Draw and explain block diagram of electro surgical unit.
- Q.23 What are shortwave Diathermy. Explain the circuit diagram of Shortwave diathermy.
- Q.24 What are ECG. Draw and Explain wave form of ECG.
- Q.25 Define Electrotherapy. Explain galvanic current waveform.
- Q.26 Explain Inductive plate method application of short wave diathermy.
- Q.27 What are Ultrasonic Therapy. Explain Block diagram of ultrasonic therapy unit.
- Q.28 What are Spinal Cord stimulator. Explain it.
- Q.29 What are electro diagnosis. Explain the Intensity Time Curve (i-t curves).
- Q.30 Explain Transcutaneous Electric Nerve Stimulator.
- Q.31 What are electrotherapy. Explain working principle of electrotherapy.