

- 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. $(2 \times 10 = 20)$

- 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.

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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. $(10 \times 1 = 10)$

- 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 spore 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

- Q.6 c) Copper d) Alumminium
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 heamodialysis
 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.