

- Q.29 What are sterilization. Explain different type of sterilization.
- Q.30 Explain Different component of Laser.
- Q.31 What are Dialyzer. Explain Hollow fibre Dialyzer.
- Q.32 What are Laser. Explain working principle of Laser of laser.
- Q.33 Draw & Explain Block diagram of hearmodialysis machine.
- Q.34 Explain Pulsed Ruby Laser.
- Q.35 What are Surgical Diathermy. Explain Type of waveform generated by surgical diathermy machine.

SECTION-D

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

- Q.36 What are Laser. Explain Characteristic of Laser in detail.
- Q.37 What are CSSD. Explain the importance of CSSD in hospital.
- Q.38 What are Dialysis. Explain the working principle of hearmodialysis machine with block diagram.

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Roll No.....

5th Sem, **Branch :** Medical Electronics
Subject : Therapeutic Medical Instrument (TMI)

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 For what all purposes is diathermy principal used?
- Surgical and Therapeutic
 - Therapeutic and Diagnostic
 - Diagnostic and surgical
 - Diagnostic and rehabilitative
- Q.2 Waste autoclaves process waste in
- Batches
 - Continuous flow
 - Both A and B
 - None of the above
- Q.3 The autoclave process gives a _____ pathogen and virus kill rate.
- High
 - Very high
 - Low
 - Very low
- Q.4 What is the operating temperature for table top steam sterilizer?
- 110-115⁰ C
 - 121-130⁰ C
 - 121-135⁰ C
 - 121⁰ C
- Q.5 Where is haemodialysis carried out.
- Home

- b) Hospital
 - c) Dialysis centre & Hospital
 - d) Dialysis centre
- Q.6 What surgical functions are performed by the diathermy machine?
- a) Cutting, coagulation, fulguration
 - b) Cutting, fulguration
 - c) Cutting, coagulation
 - d) Coagulation, fulguration
- Q.7 Which are not a common microwave application
- a) Telephone b) Radar
 - c) Mobile radio d) Satellite communications
- Q.8 Which type of laser is used in the treatment of detached retina
- a) Ruby laser b) He-Ne laser
 - c) CO₂ laser d) Semi Solid laser
- Q.9 Which of the diathermy machine is good for deep tissue healing?
- a) Short wave b) Ultrasound
 - c) Cold compress d) Electrical impulse
- Q.10 Which 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 Full form of ICU.

- Q.12 Name instruments which are used in to measure electric impulse of heart.
- Q.13 Expand TENS.
- Q.14 What are Physiotherapy
- Q.15 What are Higher Energy State.
- Q.16 What are Heat Therapy.
- Q.17 What are Fulguration.
- Q.18 What are Autoclave.
- Q.19 Expand CSSD.
- Q.20 What are Diathermy.

SECTION-C

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

- Q.21 What are stimulator. Explain Magnetic stimulator.
- Q.22 What are Coagulation. Explain different types of Coagulation electrode.
- Q.23 What are ECG. Explain it.
- Q.24 What are Ultrasonic therapy. Explain Block diagram of Ultrasonic therapy unit.
- Q.25 Define Microwave diathermy. Explain the production of microwave.
- Q.26 What are Short Wave Diathermy. Explain Inductive plate method application of short wave diathermy.
- Q.27 What are Electrotherapy. Explain Faradic & Galvanic current.
- Q.28 Define therapeutic instrument. Explain Cardiac Pacemaker.