

- Q.26 What are microwave diathermy. Explain the production of microwave.
- Q.27 What are Autoclave. Explain its components in brief
- Q.28 Explain Inductive method application of short wave diathermy.
- Q.29 What are dialyzer. Explain Hollow fiber Heamodialysis .
- Q.30 What are Laser. Describe Coherence characteristics
- Q.31 What are Autoclave. Explain working principle of Autoclave.
- Q.32 Explain any two Therapeutic instruments which are used in operation theatre.
- Q.33 Explain the Application of laser in medicine
- Q.34 Explain role of Central sterile Supply Department in hospital
- Q.35 Explain main elements of LASER in brief.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What are Heamodialysis . Explain the working principle of heamodialysis machine with block diagram.
- Q.37 Draw diagram & Explain working principle of surgical diathermy Analyses in detail.
- Q.38 What are Microwave diathermy. Explain the production of microwave with block circuit diagram

No. of Printed Pages : 4
Roll No.

183255

5th Sem / Med. Eltx.

Subject:- Therapeutic Medical Instrument (TMI)

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Following is not a candidate materials for laser source in fibre optics
- a) ND - YAG
 - b) He-Ne
 - c) Argon
 - d) Phosphorous
- Q.2 Removal and killing of all organism are known as
- a) Destruction
 - b) Sterilization
 - c) Pasteurization
 - d) None of these
- Q.3 What is a disadvantage of LED light over LASER light
- a) Non Coherence light source
 - b) Hardly Available
 - c) Consuming more power
 - d) Costlier than Laser
- Q.4 What is the common temperature used in autoclaves
- a) 109 degree
 - b) 122 degree
 - c) 135 degree
 - d) 142 degree

- Q.5 Which of the following is not a property of Laser
a) Coherence b) chromaticity
c) High Intensity d) Directionality
- Q.6 What of the composition of the membrane that are used in dialysis
a) Chitin b) polyethylene
c) Poly vinyl chloride d) Cellulose
- Q.7 Which of the following is a not a fundamental property of a laser light
a) it possess high degree of coherence
b) It can be generated with low intensity
c) it can be produced with narrow line width
d) it can be produced with narrow beam width
- Q.8 Autoclaves are used in the medical applications to perform
a) vulcanization b) Heating
c) Sterilization d) Cleaning
- Q.9 What is the chief principle of Dialysis
a) Capillary action b) Adhesion
c) Reverse - Osmosis d) Cohesion
- Q.10 Ultrasound are applied for obtaining image
a) Liver b) Spleen
c) kidney d) All of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What are photon
Q.12 Name instruments which are used in Surgical Diathermy
Q.13 Write two names of therapeutic instruments
Q.14 What is Cardiac pacemaker
Q.15 What is Microwave
Q.16 What is Higher Energy State
Q.17 What is Heat therapy
Q.18 What is Autoclave
Q.19 Define Dialyzer
Q.20 One application of Laser in Industries

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What are Laser. Explain working principle of laser
Q.22 Explain Ultrasonic therapy unit.
Q.23 What are diathermy. Explain the circuit diagram of Short wave diathermy
Q.24 What are CSSD. Explain the layout of CSSD in hospital
Q.25 Explain working principle of dialysis in the artificial Kidney.