

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain short-wave diathermy in details with block diagram.
- Q.24 What is CPM therapy? Explain it with block diagram.
- Q.25 Explain TENS Machine with block diagram description.

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Roll No.

5th Sem / Medical Electronics

Subject : Therapeutic Medical Instruments

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Normal motor nerve conduction velocity in upper limb is
- a) Less than 40 m/s b) 45 to 70 m/s
c) 70 to 80 m/s d) None of above
- Q.2 The instrument used to measure current density is
- a) Wheatstone bridge b) Potentiometer
c) voltmeter d) Ammeter
- Q.3 All the parameters of lung function tests are reduced in obstructive lung disease except
- a) vital capacity b) expiratory volume
c) inspiratory volume d) residual volume

- Q.4 Which has the highest wavelength
- a) x-rays b) UV rays
c) Infra-red rays d) Microwaves
- Q.5 This type of muscle training associated with high risk of injury
- a) Plyometric b) isometric
c) Isotonic d) Isokinetic
- Q.6 Conventional TENS is
- a) High intensity , low frequency stimulation
b) low, intensity, low frequency stimulation
c) High intensity , High frequency stimulation
d) Low intensity, High frequency stimulation

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Electrotherapy
Q.8 Phonophoresis
Q.9 Expand TENS
Q.10 Microscope

- Q.11 Expand IFT
Q.12 Electro-diagnosis

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write a note on safety issues related to using therapeutic instruments.
- Q.14 Explain High frequency current therapy with diagram.
- Q.15 Write a note on pain relief through electric stimulation.
- Q.16 Explain ultrasonic simulator with block diagram.
- Q.17 Explain physiological effect of therapeutic instruments.
- Q.18 Write a note on hydrocollator unit.
- Q.19 Explain Microwave diathermy.
- Q.20 Explain the principle of inter-ferential therapy with block diagram.
- Q.21 Write a note on radiant warmer.
- Q.22 Write a note on Phototherapy unit.