

Section A (50 Marks) SAQ

Que1.Short Answer Questions (Solve any 5 out of 6)

(5x3=15.00)

a.

Define Law of Grothus and Latent heat.

b.

Define shock and enumerate types of shock.

c.

State the property of thermionic emission.

d.

State Cosine law with the help of a diagram..

e.

Enumerate modes of heat transfer.

f.

Enumerate methods to reduce skin resistance.

Que2.Short Answer Questions (Solve any 5 out of 6)

(5x7=35.00)

a.

Enumerate types of LASER. Discuss properties of LASER in detail.

b.

What are transformers? Explain in details types of transformers.

c.

Describe different types of TENS with neat labeled diagram for each type.

d.

Describe construction and production of Kromayer lamp.

e.

Describe production and construction of Luminous and Non-luminous Infra Red Radiation Lamp.

f.

Explain production of Interferential Current Therapy and draw panel diagram of IFT.

Section B (30 Marks) LAQ

Que3.Long Answer Questions(Solve any 1 Out of 2) :-

(1x15=15.00)

a.

Define Cryotherapy. Describe the different methods of application of cryotherapy. Describe indications and contraindications for the same. (2+6+7)

b.

Draw circuit diagram of Short Wave Diathermy. Describe production of SWD. Explain different types of electrodes used. (4+6+5)

Que4. Long Answer Questions (Solve any 1 out of 2)

(1x15=15.00)

a.

Describe production of Ultrasound. Draw panel diagram of Ultrasound machine. Explain methods of testing of Ultrasound.. (6+5+4)

b.

Explain in detail physiological effects of Contrast bath and its technique of application. Write advantages and disadvantages of the same. (6+3+6)