RIV-01 1401/07/12

## BACHELOR OF PHYSIOTHERAPY THIRD SEMESTER **ELECTROTHERAPY II**

BPT-302 [REPEAT] [USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective )

Time: 30 min.

Choose the correct answer from the following:

1. Electromagnetic waves of Infrared Radiation is-

a 750-60000nm

b. 750-400000nm

c. 750-500000nm

d. 750-600000nm

2. A material which can withstand repeated heating and cooling is-

a. Fireclay

b. Porcelain

c. Tungsten

d. All

3. The other name of applicator in microwave diathremy

a. Emitter

b. Amitter

c. All

d. All

4. Who gave the statement that any chemical change is capable of being accelerated or decelerated with temperature--

a. Scientist rebox

b. Vant hoff

e. Scientist Russian

d. All

5. What is the other name of burns caused by moist heat

a. Gangrene

b. Burns

c. Erythema

d. Scalds

6. High pressure mercury vapour lamp is

a. W shaped

b. X shaped

c. Y shaped

d. Z shaped

7. Water cooled mecury vapour lamp is

a. Ultraviolet radiation

b. Kroyamer lamp

c. Lasor

d. Tridy mite formation

8. Diode laser have a wavelength of

a. 902nm

b. 903nm

e. 904nm

d. 905nm

9. The part of laser component which is used to excite electrons is called

a. Lasing medium

b. Resonating chamber

c. Hashgun

d. All

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SET

Full Marks: 70

Marks: 20 1×20=20

The distance of scanning method of direct contact in laser
The distance of scanning method of direct contact in laser
<b>b.</b> 5-10mm c. 10-15mm <b>d.</b> 15-20mm
Rebox currents was given in <b>a.</b> 1950 <b>b.</b> 1960 <b>c.</b> 1970 <b>d.</b> 1980
Which of the following is also called burst alternating currents?  a. Russian currents b. Rebox currents d. IFT
Career frequency of Russian current is  a. 2500 b. 3000 c. 1500 d. 4000
n UVR, Antibiotic effect is due to stimulation of  a. Epitheliolial system b. melanocytes c. Reticuloendothelial system d. All
en electrode is used in this device a. Ultrasound b. HFT c. Rebox d. Russian
he property by which depth of Ultrasound is reduced to half distance is called  a. Full value distance b. Half value distance c. Scattering d. Attenuation
The term that defines the line ''Laser rays has single colour; is  a. Monochromaticity b. Collination c. Coherence d. All
The percentage of aquasonic gel transmissivity a. 71% b. 72% c. 73% d. 74%
lourescent tubes are a. 100cm b. 110cm c. 120cm d. 130cm
amage to cells causes release of histamine like substance from epidermis and openficial dermis resulting:
a. Erythema b. Carcinogenesis

2 USIMCOURAL

## [ Descriptive ]

Marks: 50 Time: 2 hrs 30 min [ Answer question no.1 & any four (4) from the rest ] 10 1. What is Short Wave diathermy? Write about the different placement of electrodes in SWD?Mention any two dangers of short wave diathermy? 2. What is electromagnetic spectrum? How many types of 10 Intrared radiation are present? Write about luminous generators? 3. What is microwave diathermy? Write about the production of 10 microwave diathermy? 4. What is laser? Write about the production of LASER? 10 Write about techniques of application of laser 5. Whatis tridymite formation? What is theraktin tunnel?Also 10 mention how fluorescent tubes work in UVR? 6. Define ultrasound? What is phonophoresis? Write about how 10 phonophoresis work? Mention any four contraindications of ultrasound explaining why it is contraindicated. 7. What is IFT? What is accommodation? Write about the 10 different physiological effets of IFT. 8. What is rebox current? Write about the different indications of 10 rebox current in details? Draw the diagram of a rebox machine.

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