

**BACHELOR OF PHYSIOTHERAPY
THIRD SEMESTER
ELECTROTHERAPY II
BPT – 302 [REPEAT]**

[USE OMR SHEET FOR OBJECTIVE PART]

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

Marks: 20

(Objective)

1×20=20

Choose the correct answer from the following:

1. Rebox currents was given in
 - a. 1950
 - b. 1960
 - c. 1970
 - d. 1980
2. What is the primary purpose of Short Wave Diathermy (SWD)?
 - a. Reduce body temperature
 - b. Deep heating to soft tissues
 - c. improve muscle strength
 - d. decrease range of motion in joints
3. Which of the following is also called burst alternating currents?
 - a. Russian currents
 - b. Rebox currents
 - c. Ultrasound
 - d. IFT
4. Which of the following is a contraindication for the use of SWD?
 - a. Muscle strain
 - b. Acute inflammation
 - c. Osteoarthritis
 - d. Metal implants
5. The wavelengths of electromagnetic radiation is
 - a. 550- 300000nm
 - b. 650-350000nm
 - c. 750-400000nm
 - d. 800-450000nm
6. The name of insulating material of infrared radiation is-
 - a. Tungsten
 - b. Porcelain
 - c. Linking electrode
 - d. Quartz crystal
7. What are the two main types of Short Wave Diathermy application?
 - a. Pulsed and continuous
 - b. Acute and Chronic
 - c. Low frequency and high frequency
 - d. Direct and indirect
8. The colour of luminous generator of IRR is
 - a. Green
 - b. Yellow
 - c. Red
 - d. Black
9. Gowther's law is based on
 - a. Electro magnetic waves
 - b. Electro magnetic frequencies
 - c. Electro magnetic pulses
 - d. Electro magnetic spectrums

10. In which of the following devices, pen electrode is used?
 - a. Ultrasound Therapy
 - b. Interferential therapy
 - c. Rebox currents
 - d. Russian currents
11. X-ray is used for
 - a. Radiology
 - b. Hepatology
 - c. Neurology
 - d. Urology
12. The property by which depth of Ultrasound is reduced to half distance is called as-
 - a. Full value distance
 - b. Attenuation
 - c. Half value distance
 - d. Scattering
13. Contraindications of MWD
 - a. Pregnancy
 - b. Chronic pain
 - c. Both a and b
 - d. None of the above
14. The antibiotic effect is produced from which modality?
 - a. UVR
 - b. IFT
 - c. Ultrasound
 - d. IRR
15. Function of LWD
 - a. reduce joint flexibility
 - b. stimulate muscle contractions
 - c. provide deep heating to soft tissues
 - d. cool down muscle tissues
16. E2 time dosage is.....
 - a. E1 X 2.5
 - b. E1 x5
 - c. E1 x10
 - d. All
17. Which frequency range is typically used for Long Wave Diathermy?
 - a. 30 Hz to 300 Hz
 - b. 1 MHz to 3 MHz
 - c. 30 kHz to 300 kHz
 - d. 300 Hz to 3,000 Hz
18. How many fluorescent tubes are present?
 - a. 1
 - b. 2
 - c. 3
 - d. 4
19. Inverse square law is dependent on
 - a. Object and distance
 - b. Object and amplifier
 - c. Object and size
 - d. Object and frequency
20. Spectrum of fluorescent tubes are
 - a. 300-500nm
 - b. 350-450nm
 - c. 280-400nm
 - d. 300-500nm

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(Descriptive)

Time: 2 hrs 30 min

Marks: 50

[Answer question no.1 & any four (4) from the rest]

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| 1. What is IFT? What is accommodation? Write about the different physiological effects of IFT? | 10 |
| 2. What is SWD? Its types and physiological and therapeutic effects. | 10 |
| 3. What is cavitation? Explain about stable and unstable cavitation? And What is phonophoresis? Explain the procedure of phonophoresis? | 10 |
| 4. What is MWD and their indications and contraindications. Mention the dangers associated with it. | 10 |
| 5. What are ultraviolet radiations? Explain about the production of ultraviolet radiations. | 10 |
| 6. Write the differences and similarities between MWD and LWD. | 10 |
| 7. What is infrared radiations? Write about production of luminous and non luminous generator in details? | 10 |
| 8. Write the three laws related to electro magnetic waves with proper examples. | 10 |

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