



- (xi) What is the relationship between wavelength and frequency?  
A. Both are inversely proportional to each other  
B. Both are directly proportional to each other  
C. There is no relationship between wavelength and frequency  
D. None of these
- (xii) Which physical agent gives best results in acute ankle sprain?  
A. Short Wave Diathermy  
B. Cold pack  
C. Infra-red rays  
D. Moist Heat Pack
- (xiii) Pulsed Ultrasound means:  
A. Continuous passage of sound waves  
B. No passage of sound waves  
C. Passage of sound waves with pauses  
D. None of these
- (xiv) Ultrasound is contraindicated in:  
A. Malignancies  
B. Over specialized tissues like eyes, ears etc  
C. Growing ends of bones  
D. All of these
- (xv) Ultrasound cannot be transmitted through:  
A. Air  
B. Water  
C. Gel  
D. Oil
- (xvi) Short Wave Diathermy is contraindicated in:  
A. Tuberculosis  
B. Circulatory defects  
C. Malignant growths  
D. All of these
- (xvii) Therapeutic effect of Infra-red Rays is:  
A. Relief of pain  
B. Increased blood supply  
C. Muscle relaxation  
D. All of these
- (xviii) Non-Luminous Infra Red Ray elements:  
A. Heat up immediately  
B. Take some time to heat up  
C. Emit maximum rays on switching on  
D. None of these
- (xix) Infra-red rays are:  
A. Electromagnetic waves  
B. Sound waves  
C. Low frequency currents  
D. High frequency current
- (xx) Ultraviolet rays are:  
A. Electromagnetic waves  
B. Sound waves  
C. High frequency currents  
D. Low frequency currents

For Examiner's use only:

Total Marks:

20

Marks Obtained:

— 1HA 1547 —



# PHYSIOTHERAPY TECHNIQUES HSSC-I

96

**Time allowed: 2:35 Hours**

**Total Marks Sections B and C: 80**

**NOTE:** Answer any ten parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION – B (Marks 50)

**Q. 2 Answer any TEN parts. The answer to each part should not exceed 2 to 5 lines. ( 10 x 5 = 50 )**

- (i) What is Faradic current?
- (ii) How many degrees of erythema are observed in case of ultraviolet rays?
- (iii) Define the groups of Infra-red generators.
- (iv) What are the contraindications of Infra-Red Rays?
- (v) What is High frequency current?
- (vi) What is Low frequency current?
- (vii) What are the contraindications in case of Ultrasound?
- (viii) In what conditions is interferential therapy applied?
- (ix) What are motor points?
- (x) Define TENS.
- (xi) What are indications for Galvanic current?
- (xii) What is axonotmesis?
- (xiii) Give three physical effects of heat.
- (xiv) Define Ultraviolet Rays.
- (xv) Define Short wave Diathermy.

## SECTION – C (Marks 30)

**Note: Attempt any THREE questions. All questions carry equal marks. (3 x 10 = 30)**

- Q. 3** Define Magnets and give a detailed account of Mutual and Self Induction.
- Q. 4** Explain therapeutic effects and uses of Infra-Red Rays.
- Q. 5** Explain physiological effects of Ultraviolet Rays.
- Q. 6** What is the Condenser Field Method? Give a detailed account of its application.
- Q. 7** What are the causes of Electrical Shocks? What precautions should be taken to avoid occurrence of electrical shocks?