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Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_ Sig. of Invigilator. \_\_\_\_\_

## PHYSIOTHERAPY TECHNIQUES HSSC-I

### SECTION – A (Marks 20)

**Time allowed: 25 Minutes**

**NOTE:** Section-A is compulsory and comprises pages 1-2. All parts of this section are to be answered on the question paper itself. It should be completed in the first 25 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

**Q. 1** Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) Infrared ray is:
- A. Deep heating modality
  - B. Superficial heating modality
  - C. Both deep and superficial heating modality
  - D. None of above
- (ii) Frequency of short wave diathermy is:
- A. 22.6 MHz
  - B. 6.8 MHz
  - C. 27.12 MHz
  - D. 19.6 MHz
- (iii) Contraindication of ultrasound is:
- A. Haemophilia
  - B. Low back pain
  - C. Scars
  - D. Osteoarthritis
- (iv) Indication of ultraviolet irradiations are all **except**:
- A. Wounds
  - B. Acne Vulgaris
  - C. Pressure sores
  - D. On eyes
- (v) The current flowing through a metallic conductor is proportional to the potential difference across its ends, provides that all physical conditions remain constant is called:
- A. Newton's law
  - B. Ohm's law
  - C. Resistance
  - D. Gravitational force
- (vi) Majority of ultrasound generators are set at a frequency of:
- A. 3 MHz and 5 MHz
  - B. 2 MHz and 3 MHz
  - C. 1 MHz and 3 MHz
  - D. 1 MHz and 2 MHz
- (vii) Functional parts of ultrasound are all **except**:
- A. Oscillator circuit
  - B. Resistance circuit
  - C. Crystal
  - D. Wave length
- (viii) Wave length of Infrared rays is:
- A. 750 nm to 400000 nm
  - B. 7500 nm to 4000 nm
  - C. 75000 nm to 40000 nm
  - D. 75 nm to 4000 nm
- (ix) Those liquids which do not allow current to pass through them are called:
- A. Conductors
  - B. Electrolyte
  - C. Insulators
  - D. Cathode
- (x) Dangers of Infrared radiations are all **except**:
- A. Burn
  - B. Electric shock
  - C. Headache
  - D. Muscle relaxation
- (xi) Ultraviolet is contraindicated in all **except**:
- A. Acute skin condition
  - B. Hypersensitive to sunlight
  - C. Skin grafting
  - D. Wound

DO NOT WRITE ANYTHING HERE

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- (xii) Painful stimulation of sensory nerves is called as:  
A. Electric shock B. Nerve stimulation  
C. TENS D. Nerve ending
- (xiii) Faradic type current is:  
A. Short duration interrupted direct current B. Short duration direct current  
C. Long duration continuous indirect current D. Long duration interrupted direct current
- (xiv) Indication of low frequency current are all except:  
A. Loosening and prevention of adhesion B. Improvement in lymphatic drainage  
C. Scoliosis D. Comatose patients in ICU
- (xv) Motor points of face are all except:  
A. Frontalis B. Rhisorius  
C. Orbicularis oris D. Deltoid
- (xvi) The resultant current produced when two or more alternating currents are applied simultaneously at the point of intersection is called:  
A. Physical therapy B. Magnetic therapy  
C. Radiotherapy D. Interferential therapy
- (xvii) Shortwave diathermy is:  
A. High frequency current B. Low frequency current  
C. Both high and low frequency current D. Medium frequency current
- (xviii) Indication of short wave diathermy is in:  
A. Faintness B. Electric shock  
C. Giddiness D. Pain
- (xix) Nerve stimulation is not given in conditions such as:  
A. Facial Palsy B. Erb's Palsy  
C. Foot drop D. Unconscious Patient
- (xx) Ultrasound is not given in:  
A. Sprain of ankle B. Acute sepsis  
C. Frozen shoulder D. Muscle spasm

For Examiner's use only:

Total Marks:

20

Marks Obtained:

— 1HS 1647 —



# PHYSIOTHERAPY TECHNIQUES HSSC-I

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 are dangers of Infrared radiation?
- (ii) What are mechanical effects of Ultrasound?
- (iii) Name five motor points of face.
- (iv) What is sinusoidal current?
- (v) What are sources of ultraviolet rays?
- (vi) What are uses of faradic current?
- (vii) Name five therapeutic effects of short wave diathermy.
- (viii) Define electric shocks.
- (ix) What is low frequency current?
- (x) Define wavelength and frequency.
- (xi) What is galvanic current? What are its indications?
- (xii) What is electric stimulation?
- (xiii) Define ohm's law.
- (xiv) Difference between luminous and non-luminous generators.
- (xv) Define Interferential therapy.

## SECTION – C (Marks 30)

**Note:** Attempt any THREE questions. All questions carry equal marks.

(3 x 10 = 30)

- Q. 3** What are physiological effects of low frequency current?
- Q. 4** What is electric shock, its types, effects and precautions?
- Q. 5** What are therapeutic effects and dangers of ultrasound?
- Q. 6** What is frequency of Infrared radiations? What are luminous and non-luminous generators? Give detail.
- Q. 7** What are therapeutic effects and dangers of short wave diathermy.