Section "A" SAQ (50 Marks)

1. Short answer question (any five out of six):
   a) Define motor points and state their importance.
   b) Define chronaxie and rheobase.
   c) Explain Phonophoresis.
   d) Physiological effects of Faradic currents.
   e) Define Iontophoresis and name any two common ions used for pain relief.
   f) Describe and state the uses of Russian currents.
   \[ (5 \times 3 = 15) \]

2. Short answer question (any five out of six):
   a) Draw the SDC of a normally innervated muscle and describe its features.
   b) Explain five physiological and therapeutic effects of ultra violet radiations.
   c) Wound healing using LASER and ultrasound.
   d) Describe in detail, the pain gate theories.
   e) Describe therapeutic effects of high voltage and didynamic currents.
   f) Describe the principle and uses of biofeedback with examples.
   \[ (5 \times 7 = 35) \]

3. Long answer question (any one out of two):
   a) Explain the different methods of application of short wave diathermy treatment. Discuss in details the therapeutic effects and contraindications of the same.
   \[ (1 \times 1) \]

   b) Explain in details the indications and contraindications of Ultrasound therapy. Also add a note on its physiological effects.
   \[ (5 + 5 + 5) \]