

No. of Printed Pages: 2

Roll No.....

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DEPARTMENT OF PHYSIOTHERAPY
SCHOOL OF NURSING SCIENCES & ALLIED HEALTH**

**MPT 1st YEAR (ALL SPECIALTIES), ANNUAL EXAMINATION, MAY 2024
ADVANCED DIAGNOSTICS AND ELECTROTHERAPEUTICS (THEORY)
PAPER CODE: MTC/M/N/S – 163**

Time: 3 hours

Maximum Marks: 75 Marks

(Write your Roll No. on top of the paper immediately)

All sections are compulsory. Draw diagrams wherever necessary. Give examples wherever necessary.

SECTION – A

Answer any **FIVE** of the following:

(5 × 5 Marks = 25 Marks)

- Q1.** Write about the exercise therapy considerations for an amputee.
- Q2.** Discuss the indications of EMG biofeedback.
- Q3.** Short note on pain management in pregnant females.
- Q4.** Short note on inclinometer and accelerometer.
- Q5.** Comparison of NMES and FES.
- Q6.** Short note on electro goniometers

SECTION - B

Answer any **TWO** of the following:

(2 × 10 Marks = 20 Marks)

- Q1.** Write about the clinical implication of MNCV and SNCV in various neuromuscular conditions.
- Q2.** What is aquatic therapy? Write its indications and contraindications. How different properties of water can be utilized in aquatic therapy?
- Q3.** Answer the following:
 - a) What is an isokinetic dynamometer? How it is advantageous?
 - b) How is Balance and proprioception assessed?
- Q4.** Discuss the evidence-based role of core stabilization in treating various musculoskeletal disorders.

SECTION - C

Answer any *TWO* of the following:

(2 × 15 Marks = 30 Marks)

- Q1.** Write about the principles and working of Russian current and HVPGS and its evidence-based role in management of neuromuscular disorders.
- Q2.** What do you understand by Pilates? What are its indications and contraindications? Write down its principles and role in physiotherapy.
- Q3.** Discuss the evidence-based role of various electrotherapeutic modalities and exercise therapy techniques in management of impaired posture.
