

Tanta University

Faculty of Medicine

Physical Medicine Department

October 13,2012

Physical Medicine Written Exam

Number of Questions: 4

Time allowed: 3 hours

Total: 100 Marks



M.S Paper I

1-Discuss management of gouty arthritis.

2-Differentiate causes of painful shoulder and its management.

3-Give an account on:

a) Antiphospholipid syndrome.

b) Rheumatoid hand.

4- Discuss management of cerebral palsy.

Good Luck

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M.S Paper II

- 1-Discuss normal gait.
- 2- Give an account on thoracic outlet syndrome
- 3- Mention:
 - a) Physical treatment of peripheral nerve injuries.
 - b) Electroanalgesic currents.
- 4- Discuss spinal braces.

Good Luck



Tanta UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF PHYSICS

EXAMINATION for

COURSE TITLE:

ماجستير طب طبيعي وتأهيل

COURSE CODE:

DATE:

OCTOBER, 2012

TERM: SECOND

TOTAL ASSESSMENT MARKS: 100

TIME ALLOWED 3
HOURS

(Answer the following question)

تم الاجابة في هذه الورقة وتسلم مع كراسة الاجابة دون نزعها

(I) True or false

(20)

1. Of the biological effects of pulsed shortwave diathermy is increased metabolism

True (✓)

False ()

2. One of the dangers and precautions in SWD is Burn

True (✓)

False ()

3. One of the therapeutic effects of microwave diathermy is relief of pain

True (✓)

False ()

4. Dosage of MWD Duration of treatment 20 minutes is the optimum.

True (✓)

False ()

5. Infrared is not Safe and Effective

True ()

False (✓)

6. Infrared has been evaluated for physiological efficacy

True (✓)

False ()

7. Frequency ranges used in medical ultrasound imaging are 20 - 20000 Hz

True ()

False (✓)

8. Radiation is a sort of energy

True (✓)

False () .9

(II) Complete the following statements:

(20)

1. Stimulatory is typical for AC current with $f = \underline{50-100}$ Hz .1

2. Electrolytic Effect is a typical feature for DC current, when passing the

Salt solution

- c. Short-wave diathermy is used in ⁶ ~~3.~~ by everything in body
- d. Short wave diathermy is used to penetrate deep into ~~4~~ as sound wave.
- e. Muscle spasm may be reduced directly by ¹⁰ ~~5.~~ faster than lower frequencies
- f. Infrared ⁸ ~~6.~~ medical therapy to produce local heating in tissue
- g. Higher frequencies attenuate ⁵ ~~7.~~ faster than lower frequencies
- h. Higher frequencies are absorbed ^{8.} Increases blood flow or circulation
- i. pressure propagates ⁴ ~~9.~~ Cardiac disability
- j. Sound attenuated equally ³ ~~10.~~ SWD

(IV) General Therapeutic Uses of Electricity such as: (12)

- Control of acute pain and chronic pain
- Reduce Muscle spasm
- Strengthening of the muscles
- decreases disuse atrophy of muscles.
- facilitate tissue healing.
- " Fracture healing.
- Reduce edema.

(V) Contraindications of Electrotherapy such as: (12)

- Cardiac
- Pacemaker
- Pregn.
- menstr.
- Neurosensitivity
- Infectio - skin.
- dermatology
- implant.

(VI) How IR affects the body?

(8)

- for IR penetrates body surf & heat it f. ins. d.
cond. conv. Rad.

- KD
- ↑ circ
- influx ↓ ↑
- ede Rad
- Enzymes
- circ. metabol

resonant
abs.

(VII) What are the benefits of IR?

(8)

- Vitality
- extensibility
- circulation
- Infl. prod
- ena
- Immunity
- Metabol. —
- ms. spa