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Q1 (A)

Ans : \*the main difference between energy nd application.

: the 1g of ice is 0c requires 491j energy than converd into 1g of water at 37c.

:than the 0c 1g of water requires 115j energy to convert into 1g of water at 37c.

:the main porposes of lower temperature of body to higher temperature 10c.

:that’s why we use ice for more energy lose.

Q1(b)

Ans

>the thermal receptor and cold are present in the skin.

>cold receptor are several time more than warm receptors.

>cold receptor conduction to reduce through application of ice therapy.

>when we apply cold therapy depolarisation starts in nerve fibres that’s why the conduction are reduce or slowdowns

>through the repetition of ice therapy demage the neural circuit.

>and the paralysis of nerve fibers.

>it’s the reason.

Q1 (c)

And:

>when we apply the cold therapy the application of cold therapy is vasoconstriction then the BP is increase then the cardiac injury complications are increased.

Q1 (d)

Ans:

Uses of ice cube massage

1 reduces pain

2 reduces spasticity

3reduces muscles spasms

4promote rapier of the dammed of tissues

5 improve blood circulation

6 reduce wrinkle

7 cures heat rashes

8 reduce skin inflammation

9 first aid treatments

10 exofolites skin

11 uses as a skin smoother

12 reduces puffiness under eyes

13 used in the cure of acne applying ice to our face helps get ride of acne

14 provide excitatory stimulus to inhibited muscles

15 reduce swelling

16 used for muscle muscle stimulation and counter irritating.

QNo 2

Ans (a) pain

Pain reduces is one of the part

To reduce the pain

> apply cold therapy

>stimulations of cold receptor

>impulse moved towerds posterior horn of the spinal cord

> these impulse arrived to large diameter to attempt

>to access the spinal cord pain (gate theory)

>it’s the reduce of pain

Qno2(b)

Ans:

Reduce spasticity;

>apply cold therapy

>impulse moved towerd the anterior horn of cell

>then control the extrapyramidal system

>fires spontaneously and increase muscle tone

Q3 (a)

Ans (a): **luminous generator**

> produce light and heat

>thick protective lense and optical system

>to produce18 beam pattern

>advance digital display

>Ulster fast short circuit protection

> the lamp of TUNGSTEN FILAMENT

>to contain inter gas at low pressure

> inside glass is silver to provide reflection

>out side of glass is raddent to absorb green and blue rays

> when we pun on lamp it produce visible light IR (infrared) and few UVR (ultraviolet rays ).

**Non luminous generators**

> it’s low temperature generator

> it’s produce only infrared rays

> the wavelength is 750 nm to 15000nm

> for recent injury

> many use in sedative effect

> produce some visual rays

>the electric current pass by wire then produce heat

> IR R emitted by hot wire

> this type of lamps some times to warmup

>it takes 15 min to reach maximam emission.

Qno3(b)

Ans [b} when we look at the spectrum UV waves are quit a bit similar in wavelength than infrared and X-rays/gamma rays are even similar therefore UV waves are probably causing more effective than infrared waves and X-rays are probably doing more demage

https://lavelle.chem.ucla.edu/forum/viewtopic.php?t=15531