

Class-1



MLT MCQS

- · RRB LA / LS
- · AIIMS JLT/SLT
- PGIMER Chandigarh
- MHSRB Telangana



## Target MLT --

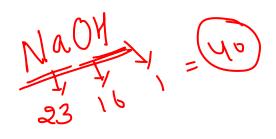
Beer's law states that the darker the color produced, the more light absorbed in the specimen; the more light absorbed, the-

- A. Lower the concentration of the analyte
- B. Higher the concentration of the analyte (solute)
  - C. More light transmitted
  - D. Longer the wavelength required



Absorbance & Pathlength Clambert's Law Beer's Law > Absorbance & Conc. of Analyte. Transmitted Transmiternie of





What is the normality of a solution of sodium hydroxide (molecular weight=40) containing 20 grams in 100 mL of solution?

## Target MLT Target MLT

NaOM = Na - OM

$$= \frac{Weight}{Equivalent\ weight}$$

Equivalent Weight 
$$=\frac{Molar\ Mass}{n}$$

$$eq \Rightarrow \frac{40}{1}$$



Carbohydrates are organic compounds of-

1. carbon 2. hydrogen 3. oxygen

Cn Han On

- A. 1 and 2 only
- B. 1 and 3 only
- C. 2 and 3 only
- 45. 1,2, and 3



To make a 1:5 dilution of serum sample, dilute-

5-Total

A. 1.0 mL of serum + 5.0 mL of diluent

1.0 mL of serum + 4.0 mL of diluent

C. 1.0 mL of serum + 6.0 mL of diluent

D. 5.0 mL of serum + 1.0 mL of diluent

l Part Serum U Part Diluent

link



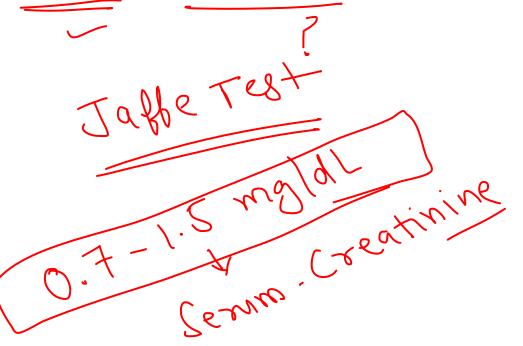
Which one of the following is a function of gamma globulin?

- Transports glucose
- Regulates body temperature
- Performs as fibrinogen for blood coagulation
- **Provides humoral immunity**



Most methods for the determination of blood creatinine are based on the reaction of creatinine and-

- A. Sulfuric acid
- **B.** Alkaline picrate
- C. Acetic anhydride
- D. Ammonium hydroxide



## Target MLT Target MLT

Jaffe's test

Creatinine reacts with <u>picric acid</u> in alkaline medium to form <u>orange red</u> color complex.









The ketone bodies include acetoacetic acid, acetone, and-

A. Lactic acid

3-hydroxy butyric acid

- Oxaloacetic acid
- Acetic acid

Beta- Mydroty Butyrate



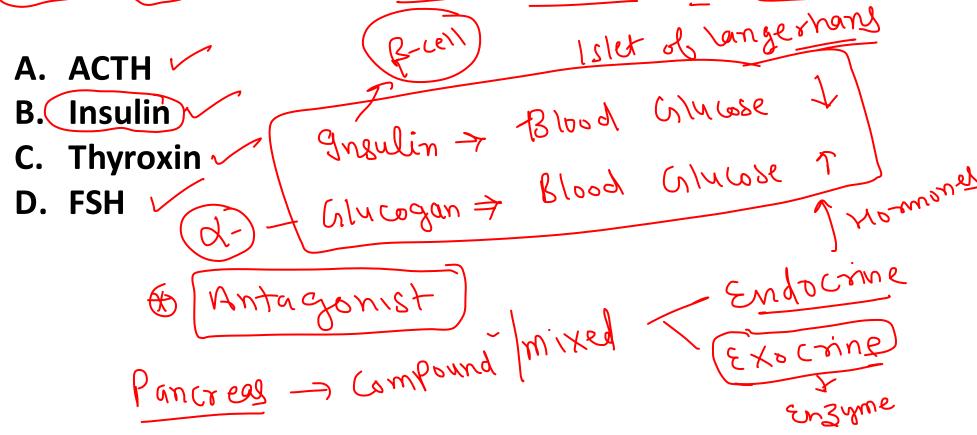


## **Examples of Ketone bodies**

- •Aceto-acetate (20%)
  •Aceto-acetate (20%)
  - •Beta-hydroxybutyrate (or 3-hydroxy butyrate)- 78%

Only the first two are true ketones while hydroxy butyrate does not possess a keto (C=O) group.







Albumin, alpha1, alpha2, beta, and gamma globulin are electrophoretic fractions of-

- A. Hemoglobin
- B. Amino acid
- Serum protein
- D. Serum lipoprotein

Clothing Sactor

blosury





Most of the plasma thyroxine (T4) is -

- A. Bound to globulin
- B. Bound to albumin
- C. Free
- D. Bound to cholesterol <

Typosine

Margid



- •Two specific binding proteins are responsible for the transport of thyroid hormones.
- Thyroxine binding globulin (TBG)
- •Thyroxine binding pre-albumin (TBPA)
- •Both T4 and T3 are more predominantly bound to TBG
- •A small fraction of free hormones are biologically active.
- •T4 has a half-life of 4-7 days while T3 has about one day.