

Class-4



MLT MCQS

- · RRB LA / LS
- · AIIMS JLT/SLT
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### **External Quality Assessment is needed for-**

- A) Monitoring the performance of a single laboratory
- B) Daily monitoring of accuracy
- C) Daily monitoring of precision
- Comparing the performance of different laboratories

# Target MLT Target MLT

Feature	Internal Quality Control (IQC)	External Quality Assessment (EQA)
Frequency	Daily or routinely conducted within the	Periodic (e.g., monthly, quarterly, annually)
Objective	Ensure accuracy and precision of tests within the lab	Compare performance with other labs and ensure compliance with standards
Scope	Focuses on the individual lab's procedures and instruments	Assesses overall performance compared to external labs
Control	Lab has direct control over the process	Lab has no control over the external samples or results
Results Interpretation	Based on known control samples	Based on results from multiple laboratories



For estimating urea and bicarbonate, the preferred

specimen of choice is-

A) White blood corpuscles (WBC)

- B) Whole blood 🖊
- 🗲) Plasma
  - D) Red blood corpuscles (RBC)

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Plasma glucose values in clinical laboratory are commonly reported using which of the following units?

A) IU/L
B) mg/dl
C) g/l
D) mg/L

Fasting # 10 malar
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No malar



#### TABLE 36.3 Diagnostic criteria for oral glucose tolerance test (WHO 1999)

Condition		Plasma glucose concentration as mmol/l (mg/dl)		
		Normal	Impaired glucose tolerance	Diabetes
Fasting		<6.1	<7.0 (<126)	>7.0
2 hours after glucose	Shuntons	<7.8	<11.1 (<200) \yo -200	>11.1 (>200)
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# Target MLT Target MLT

(Inly)

Ketone bodies sin urine are identified by-

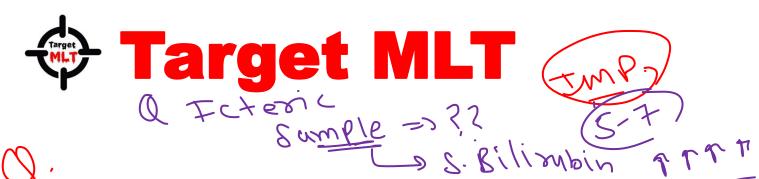
- A) Heat coagulation test
- B) Benzidine test > Blood
- Rothera'a test -> Ketone Bodies
  - D) Fouchet's test => Bile Pigment

### Target MLT Target MLT



#### The normal range of total bilirubin level in the serum is-

- A) 2 to 4 mg/dl
  - The total bilirubin concentration in serum is
- C) 0.2-1 mg/dl (conjugated ~ 0.6 mg/dl; unconjugated
- **D)** ~ 0.4 mg/dl). Elevation in serum bilirubin concentration is observed in jaundice. Unconjugated bilirubin is increased in hemolytic jaundice, conjugated bilirubin in obstructive jaundice, while both of them are increased in hepatic jaundice.



The total bilirubin concentration in serum is 0.2-1 mg/dl conjugated ~ 0.6 mg/dl; unconjugated ~0.4 mg/dl). Elevation in serum bilirubin Q concentration is observed in jaundice) Unconjugated bilirubin is increased in hemolytic jaundice, oconjugated bilirubin in obstructive jaundice, while both of them are increased in hepatic jaundice.

Conjugated = 20.6 mg/al Donconjugated = 20.4 mg/al Van bergh QAM = S. Bilimbin



Why is fluoride added for blood glucose estimation?

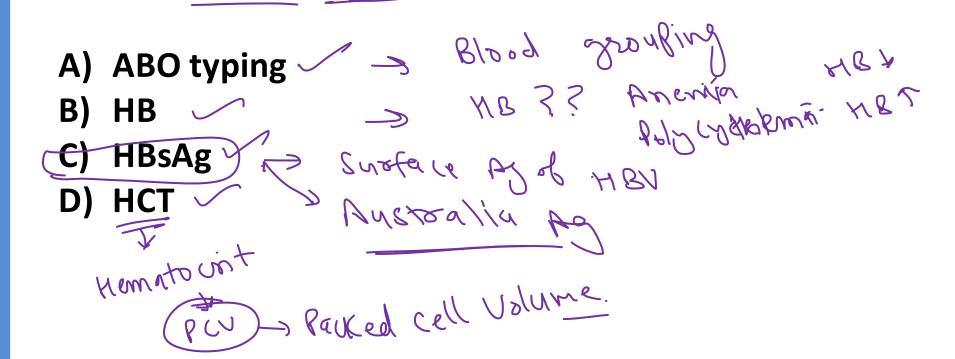
- A) It stimulates glycolysis
- It stimulates clotting
- It inhibits glycolysis
- It prevents clotting

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Which of the following test is preferred by the blood bank to prevent disease transmission?



# Target MLT

Temperature used for storing blood in a blood bank refrigerator is-

- A) 4-6 °C
- B) 8-10 °C
- C) 10 12 °C
- D) 0-1°C



TMP.

#### Comparative chart of storage and expiry of blood components

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Fresh frozen plasma can be utilize till-

- A) 35 days
- B) 6 hrs <
- C) 12 hrs
- D) 1 year

25-

FFP can be stored for 1 year if temperature is maintained below -25° C. When required for transfusion, FFP is thawed between 30-37° C and then stored in the refrigerator at 2-6° C. Since labile coagulation factors rapidly deteriorate, FFP should be transfused within 2 hours of thawing.



#### How often blood can be donated?

- A) After 24 hour
- B) After 3 hour
- C) After3 month
- D) After 6 month

25/08 Belove

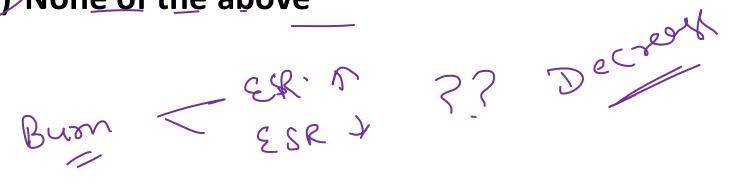
-30 -35 -40





### What is anticoagulant?

- A) Liquid which stop bleeding
- B) Chemical which prevent bleeding
- C) Salt that allow blood to clot
- D) None of the above



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Agglutination with both Anti-A and Anti-B typing indicates the blood group is-

- A) AB
- **B)** A
- C) B
- D) O



ASSLutination



#### O Negative is universal-

- A) Donor
- B) Recipient ~
- C) Donor as well as recipient
- D) All of the above

Dove

They

Ornersal Donor

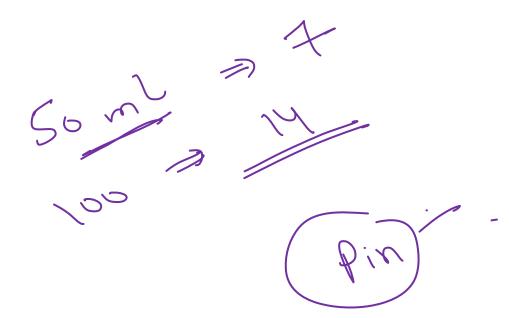
Ornersal Pecceptor

AB + 1e = Diviversal Pecceptor



Volume of ACD solution used to collect 100ml of blood is-

- A) 16 ml
- B) 30ml
- C) 28ml
- D) 5ml



# Target MLT

Under which circumstances will an antigen – antibody reaction occur?

- A) A person with type AB blood is given type O blood
- B) A person with type AB blood is given type B blood
- A person with type O blood is given type A blood James
- D) A person with type A blood is given type O blood X

OBlood of => AX BX

Antibaly = 0 [B