



FMGE June '26

RECALL SESSION

A Mega Recall Session By
India's Top Educators

Biochemistry



Q. Interpret the given ABG analysis. pH- 7.2, pCO₂- 25, HCO₃⁻ 16, Anion gap-12.

- a. NAGMA
- b. HAGMA
- c. Respiratory acidosis
- d. Respiratory alkalosis

Biochemistry



Q. What type of electrolyte imbalance is seen in Refeeding syndrome?

- a. Hyperkalemia
- b. Hyponatremia
- c. Hypomagnesemia
- d. Hypophosphatemia

Biochemistry



Q. A 6-month- old infant presented with vomiting after having fruit juice. What sugar is most likely to be seen?

- a. Glucose
- b. Fructose
- c. Sucrose
- d. Galactose

Biochemistry



Q. A 2-year-old child underwent a surgery, and the wound took one month for healing. Deficiency of which of the following micronutrients is the most likely cause of the delayed wound healing?

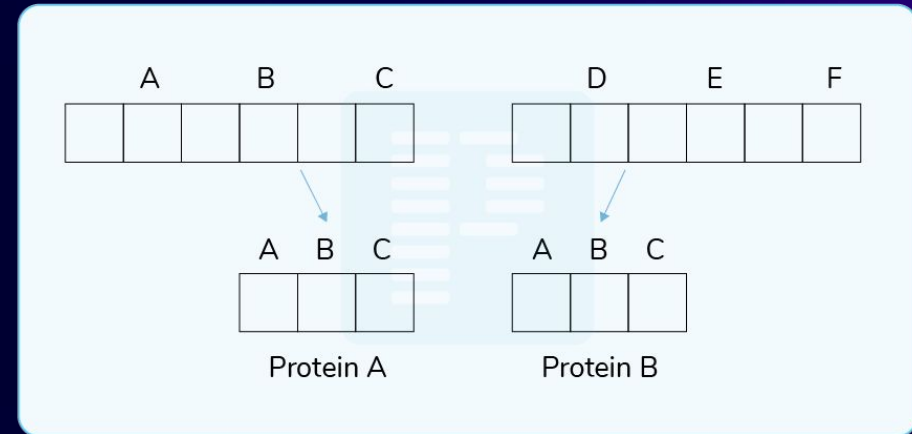
- a. Copper
- b. Zinc
- c. Magnesium
- d. Iron

Biochemistry



Q. What is shown in the image?

- a. RNA Splicing
- b. Gene Editing
- c. RNA editing
- d. Post -translational modification



Biochemistry



**Q. Which of the following DNA repair mechanisms is defective
Xeroderma pigmentosum condition?**

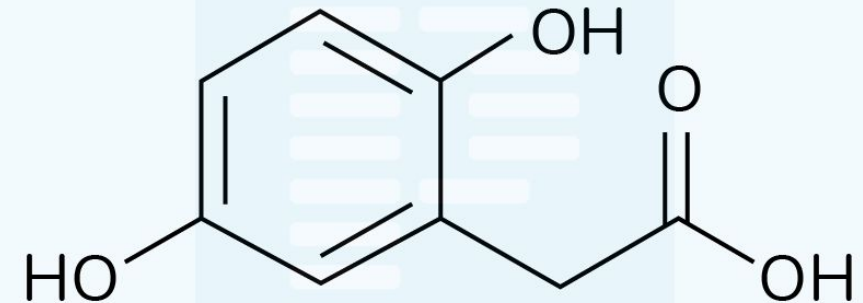
- a. Base excision repair
- b. Mismatch repair
- c. Neucleotide repair
- d. Non-homologous end joining

Biochemistry



Q. A child was presented with the history of dark urine and dark pigmentation on the ear lobe. What is the most likely defect responsible for this condition?

- a. Phenylalanine hydroxylase defect
- b. Homogentisate oxidase defect
- c. Pyruvate dehydrogenase defect
- d. Fumarylacetoacetate hydrolase defect



Biochemistry



Q. A 12-year-old girl with pigmented hair was noted. Which of the following proteins are more likely to bound with keratin leading to this condition?

- a. Methionine
- b. Lysine
- c. Cysteine
- d. Glycine

Biochemistry



Q. Which of the following Vitamin deficiency is associated with cystic fibrosis?

- a. Biotin
- b. Vitamin A
- c. Vitamin C
- d. Riboflavin

Biochemistry



Q. A 9-year-old boy presented with bleeding gums and recurrent poor wound healing and pain in the lower extremities. Examination revealed corkscrew hairs & swollen spongy gums. X-rays shows white line at the metaphysis. The underlying biochemical defect involves impaired hydroxylation of proline residues during collagen synthesis. Which vitamin deficiency is responsible for this condition?

- a. Vitamin A
- b. Vitamin C
- c. Vitamin D
- d. Vitamin K

Biochemistry



Q. Serum glucose is normal, but CSF glucose is very low. The defect is most likely due to deficiency of which glucose transporter?

- a. GLUT 1
- b. GLUT 2
- c. GLUT 4
- d. GLUT 5

Biochemistry



Q. A patient presented with megaloblastic anemia with neurological symptoms. Which vitamin is deficient?

- a. Vitamin B12
- b. Vitamin B1
- c. Vitamin B2
- d. Vitamin B3

Biochemistry



Q. Two separate question on HMG CoA reductase & Biotin.



THANK YOU