

# Ivory

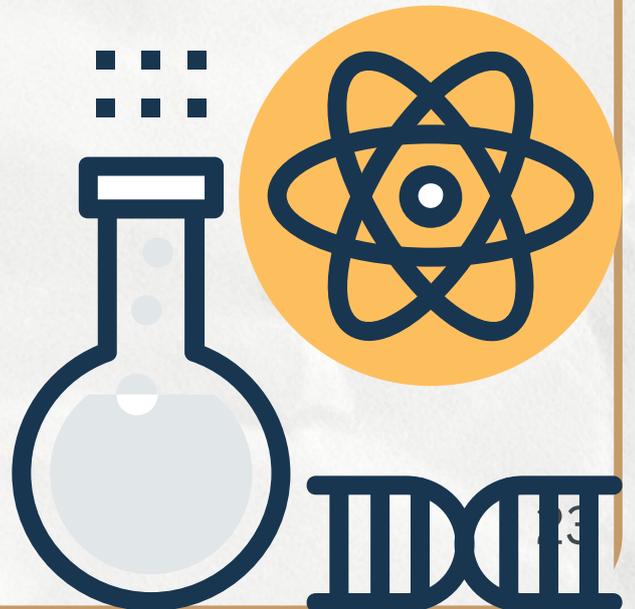
**BIOCHEMISTRY  
FINAL**

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# BIOCHEMISTRY-FINAL

**Q1: Pregnant woman has bleeding in the umbilical cord, what vitamin deficiency does she have**

- A. Vitamin A
- B. Vitamin K
- C. Vitamin C
- D. Vitamin B12

**Answer: Vitamin K**

**?Q2: Which process cannot occur in the brain**

- A. Breakdown of triglycerides
- B. Fatty acid release
- C. Lipolysis
- D. Glycerol release

**Answer: lipolysis**

**Q3: All vitamins cause anemia EXCEPT:**

- A. Vitamin C
- B. Vitamin A
- C. Vitamin B12
- D. Vitamin B9

**Answer: Vitamin A**

**Q4: What carrier is used in L-amino transamination?**

- A. FMN
- B. NAD
- C. FAD
- D. CoA

**Answer: FMN**

**?Q5: Which carrier is used in L-glutamic transamination**

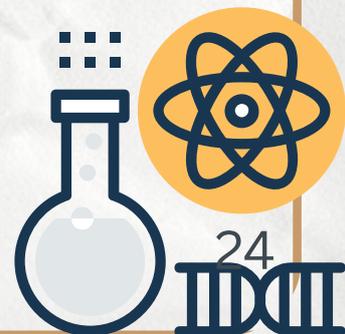
- A. FMN
- B. NAD
- C. TPP
- D. Biotin

**Answer: NAD**

**:Q6: The major source of urea is**

- A. Transamination
- B. Deamination
- C. Transdeamination
- D. Beta oxidation

**Answer: Transdeamination**



# BIOCHEMISTRY-FINAL

?Q7: Which carrier is used in decarboxylation

- A. Biotin
- B. TPP (Vit B6)
- C. NAD
- D. FAD

Answer: TPP (Vit B6)

?Q8: Which enzyme is used in well-fed state (glycolysis)

- A. Hexokinase
- B. Pyruvate kinase
- C. Glucose-6-phosphatase
- D. Pyruvate carboxylase

Answer: Pyruvate kinase

Q9: Enzyme deficiency leading to favism is:

- A. LDH
- B. G6PD
- C. PK
- D. SDH

Answer: G6PD

Q10: Which of these lowers Ca levels?

- A. Vitamin D
- B. Calcitonin
- C. Phytate
- D. PTH

Answer: Phytate

Q11: Which of these conditions is considered diabetic?

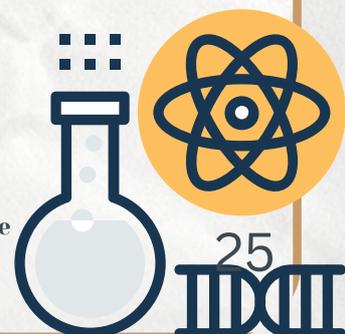
- A. Fasting < 100
- B. Fasting 100–110
- C. Fasting 110–125
- D. Fasting > 126

Answer: Fasting > 126

Q12: Type II ammonemia occurs in the deficiency of which enzyme?

- A. CPS I
- B. Ornithine transcarbamoylase
- C. Argininosuccinate lyase
- D. Arginase

Answer: Ornithine transcarbamoylase



# BIOCHEMISTRY-FINAL

?Q13: Which mineral is essential for spermatogenesis

- A. Calcium
- B. Iron
- C. Manganese
- D. Zinc

Answer: Manganese

Q14: Which of these amino acids does not enter gluconeogenesis?

- A. Alanine
- B. Glycine
- C. Leucine
- D. Serine

Answer: Leucine

Q15: Two molecules of acetyl CoA are condensed to form aceto-acetyl CoA by which enzyme in ketogenesis?

- A. Thiolase
- B. Citrate synthase
- C. HMG-CoA synthase
- D. HMG-CoA lyase

Answer: Thiolase

Q16: How many cycles and acetyl-CoA molecules are produced by complete  $\beta$ -oxidation of an 18C fatty acid?

- A. 7 cycles, 9 acetyl-CoA
- B. 8 cycles, 9 acetyl-CoA
- C. 9 cycles, 8 acetyl-CoA
- D. 8 cycles, 8 acetyl-CoA

Answer: 8 cycles, 9 acetyl-CoA

Q17: Carbon dioxide is produced in which process of lipogenesis?

- A. Condensation of position 1 and 2
- B. Reduction step
- C. Malonyl-CoA formation
- D. Elongation step

Answer: Condensation of position 1 and 2

