

# CLINICAL CHEMISTRY MCQs

## A. CARBOHYDRATES

- \_\_\_\_ 1. Hypoglycemia comes about for various reasons and clinical symptoms usually occur at blood glucose concentrations:  
A.  $<3.8\text{mmol/L}$     B.  $<3.0\text{mmol/L}$     C.  $<2.8\text{mmol/L}$     D.  $<5.0\text{mmol/L}$
- \_\_\_\_ 2. The healthy organism maintains the extracellular glucose concentration remarkably constant within the limits of:  
A.  $5\text{--}12\text{mmol/L}$     C.  $2.8\text{--}3.8\text{mmol/L}$   
B.  $3.3\text{--}10\text{mmol/L}$     D.  $1.2\text{--}2.4\text{mmol/L}$
- \_\_\_\_ 3. Which classification of diabetes mellitus is genetically predetermined, HLA-associated, chronic autoimmune disease with insulin deficiency and glucagons excess as its pathophysiologic sequelae?  
A. Type I    C. non-obese type II  
B. obese type II    D. MODY-maturity onset diabetes of the young
- \_\_\_\_ 4. According to the WHO criteria, patients with type I diabetes mellitus are, at the time of diagnosis, characterized by:  
1. hyperglycemia    2. ketonuria    3. ketoacidosis    4. normal weight  
A. only 1 and 3 are correct    C. only 1, 2, and 3 are correct  
B. only 2 and 4 are correct    D. 1, 2, 3 and 4 are correct
- \_\_\_\_ 5. In diabetic patient, this provides information about the average blood glucose concentration during the preceding 6-8 weeks:  
A. HbA1c    C. HbB  
B. HbF    D. HbS
- \_\_\_\_ 6. This term describes the disturbed insulin effect on cells such as adipocytes, skeletal muscle cells, and hepatocytes. In simplified terms, glucose uptake by these insulin-dependent cells is reduced. As compensation, a rise in insulin secretion with hyperinsulinemia ensues.  
A. progressive hyperglycemia    C. insulin resistance  
B. impaired glucose tolerance    D. glucose-mediated insulin secretion
- \_\_\_\_ 7. Diabetes mellitus secondary to certain and other diseases and disorders may involve the following organs:  
1. pancreas    2. liver    3. anterior pituitary    4. adrenal gland  
A. only 1 and 3 are correct    C. only 1, 2, and 3 are correct  
B. only 2 and 4 are correct    D. 1, 2, 3 and 4 are correct
- \_\_\_\_ 8. In the case of gestational diabetes mellitus, a normal diurnal glucose profile performed on the 3<sup>rd</sup> to 4<sup>th</sup> postpartum day rules out persistent diabetes mellitus. In women with macrosomic children, the diurnal glucose profile does not become valuable as an indicator until how many weeks after delivery?  
A. 3 weeks    B. 6 weeks    C. 9 weeks    D. 12 weeks
- \_\_\_\_ 9. The determination of glucose tolerance following the oral administration of glucose is recommended as a screening test for the presence of underlying

# Mcq Tutor For Students Of Clinical Chemistry

**Rachel Sandford**



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 $900 \times 2\pi / 60 \text{ rad/s}$   $\omega_0 = 30\pi \text{ rad/s}$  and  $t = 60 \text{ s}$  hence angular deceleration  $\alpha = -\pi/2$  question 3 a bus is moving in a circular track of radius 1000cm with a speed of 10m/s

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