

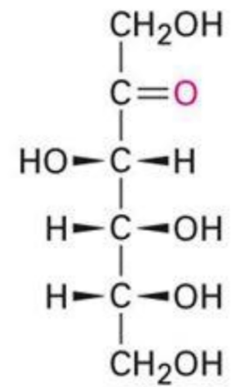
Questions (1-5) about diabetes

1. A 45-year-old male presents to the clinic complaining of increased thirst and frequent urination. Upon examination, his fasting plasma glucose level is measured at 140 mg/dL. What further diagnostic test would be most appropriate to confirm a diagnosis of diabetes mellitus?
 - a) Lipid profile
 - b) Oral glucose tolerance test (OGTT)
 - c) Hemoglobin A1c (A1c) test
 - d) Urinalysis
2. A 35-year-old female with a family history of diabetes undergoes an OGTT. Her 2 hr post-glucose load value is measured at 180 mg/dL. What is the most likely interpretation of these results?
 - a) Normal glucose tolerance
 - b) Impaired fasting glucose
 - c) Impaired glucose tolerance
 - d) Diabetes mellitus
3. A 50-year-old male presents with central obesity, elevated blood pressure, and elevated triglyceride levels. His fasting plasma glucose is measured at 110 mg/dL. Which diagnosis should be considered based on these findings?
 - a) Type 1 diabetes mellitus
 - b) Metabolic syndrome
 - c) Type 2 diabetes mellitus
 - d) Hyperlipidemia
4. A 60-year-old female is found to have an A1c test result of 6.8%. What does this result suggest about her glycemic control?
 - a) Poor glycemic control
 - b) Normal glycemic control
 - c) Hypoglycemia
 - d) Impaired glucose tolerance
5. A 40-year-old male presents with a waist circumference of 95 cm, elevated triglycerides (160 mg/dL), and reduced HDL cholesterol (35 mg/dL). His blood pressure is 140/90 mm Hg. What diagnosis should be considered based on these findings?
 - a) Hypertension
 - b) Type 1 diabetes mellitus
 - c) Metabolic syndrome
 - d) Hyperlipidemia

1. Answer: b) Oral glucose tolerance test (OGTT)
2. Answer: c) Impaired glucose tolerance
3. Answer: b) Metabolic syndrome
4. Answer: a) Poor glycemic control
5. Answer: c) Metabolic syndrome

1-Which of the following are true about the following structure

- A) it's synthesized in mammary gland
- B)it's called dextrose
- C)it's the major source of energy
- D) it's need for sexual activity (to reach and fertilize eggs)
- E)it's aldohexose



2) Choose the most accurate statement

- A) most isomers that utilized in the body are in L Form
- B)L- xylulose cannot utilized into D form and it's always in the L form
- C) L-arabinose is an ketopentose can be present in grapes
- D) L- fucose occur naturally in its L form
- E)L - arabinose is component of glycoproteins

3- all of the following are true except :

- A) D-mannose constituent of many glycoproteins
- B) milk sugar enter in the structure of glycolipid
- C)milk sugar found in C.N.S tissue
- D) grape sugar is sweeter than fruit sugar
- E) milk sugar can converted into glucose

4-All of the following are functions of pentose except:

- A) they are component of vit B2
- B)enter in the structure of flavoproteins
- C) ribose phosphate and ribulose phosphate are intermediate of glycolysis pathway
- D) enter in the structure of GTP
- E) all of the above are wrong

Ans:
1)D
2)E
3)D
4)c