PRACTICE: PENTOSE PHOSPHATE PATHWAY

36.	Transketolases transfer	parts of sugar molecules	to other sugar molecules.	. The transferred segment is composed of:

- a. 1 carbon
- b. 2 carbons
- c. 3 carbons
- d. 4 carbons
- e. 5 carbons
- 37. Transaldolases transfer parts of sugar molecules to other sugar molecules. The transferred segment is composed of:
 - a. 1 carbon
 - b. 2 carbons
 - c. 3 carbons
 - d. 4 carbons
 - e. 5 carbons
- 38. Which of the following statements about the Pentose Phosphate Pathway is **correct**?
 - a. It generates 36 moles of ATP per mole of glucose
 - b. It produces 6 moles of CO2 per mole of glucose
 - c. It is a reductive pathway consuming NADH
 - d. It is present in plants, but not in animals and bacteria
 - e. It provides precursors for amino acid biosynthesis
- 39. Which of the following acts in the Pentose Phosphate Pathway?
 - a. glycogen phosphorylase
 - b. aldolase
 - c. 6-phosphogluconate dehydrogenase
 - d. phosphofructokinase-1
 - e. pyruvate kinase
- 40. Glucose labeled with ¹⁴C in all of its carbon atoms, is added to a crude liver extract rich in the enzymes of the pentose phosphate pathway. The most rapid production of ¹⁴CO₂ will occur from glucose is carbons:
 - a. C-1
 - b. C-2
 - c. C-3
 - d. C-4
 - e. C-5