

OLABISI ONABANJO UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY
REMO CAMPUS, IKENNE

2016/2017 HARMATTAN SEMESTER EXAMINATION

Course: BCH 301

Course Title: Metabolism of Carbohydrates

Time Allowed: 2 hours

Date: 16 February 2017

Instruction: Answer all questions

1. (a) What are glycosides?
(b) Highlight the physiological importance of monosaccharides.
(c) Write a short note on D and L isomers of glucose. Differentiate structurally between α -D-glucuronate and β -L-iduronate.
2. (a) Highlight the significance of the pentose phosphate pathway.
(b) Simply write out the biochemical steps catalyzed by transketolase and transaldolase in the pentose phosphate pathway.
3. (a) With the aid of a schematic diagram ONLY, explain the Cori Cycle
(b) Explain the REDUCTION of sugars. Give two (2) examples.
4. List four (4) disorders of carbohydrate metabolism and explain any one (1)