

OLABISI ONABANJO UNIVERSITY, AGO-IWOYE.

DEPARTMENT OF BIOCHEMISTRY, REMO CAMPUS

2017/2018 HARMATTAN SEMESTER EXAMINATIONS

BCH 403: BIOSYNTHESIS OF MACROMOLECULES (2 UNITS)

INSTRUCTIONS: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS.

TIME ALLOWED: 2 HOURS.

1. Distinguish between the followings:
 - a. Chitin and cellulose
 - b. Glycogen and starch
 - c. Write concisely on glycosaminoglycans.
2.
 - a. Compare and contrast the process of glycogenolysis and glycogenesis.
 - b. Write an essay on disorders associated with carbohydrates metabolism.
3.
 - a. Highlight in detail, how cholesterol is being synthesized in human body.
 - b. Enumerate the biochemical importance of cholesterol.
4. Explain in detail, how a named nucleotide is synthesized in an organism.
5. Cell -walls are rich in structural and protective polysaccharide. DISCUSS
6. What are macromolecules? Discuss in detail, the functions of macromolecules.