## OLABISI ONABANJO UNIVERSITY DEPARTMENT OF BIOCHEMISTRY 2018/2019 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: BCH 403

TIME ALLOWED: 2 Hours

COURSE TITLE: BIOSYNTHESIS OF MACROMOLECULES DATE: 13/05/2019

| OURSE TITLE: BIOS INTHESIS OF MACROMOLECOLES DATE. 15/03/2019  |
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| NSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE  |
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| 1. Differentiate between the following pairs giving at least one structural example where  |
| appropriate.   |
| i. Starch and Glycogen   |
| ii. Chitin and Cellulose   |
| iii. Pyranose and Furanose Sugars  |
| iv. Anomers and Epimers  |
| y Enantiomers and Diastereomers  |
| vi. Purine and Pyrimidine Vii. Proteins Proteins   |
| vii F. Globular and Fibrous Proteins   |
| 2. a. What are macromolecules?   |
| b. Discuss in detail, the functions of macromolecules.   |
| 4:   |
| 3. Write concisely on EITHER proteoglycans OR glycoproteins.   |
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| 4. a. How is glycogen synthesized?   |
| 4. a. How is glycogen synthesized?  b. Write an essay on disorders associated with glycogen metabolism.  |
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| Explain in detail, how a named nucleotide or lipid is synthesized in an organism.  |
| b. How is the pathway regulated?   |
| phospho d  |
| Discuss in detail the biosynthesis of peptidoglycan.   |
| ( Triplucia) ribolishar  |
| Chice Comine - 6   |
| - Lucramine  |
| b. How is the pathway regulated?  Discuss in detail the biosynthesis of peptidoglycan.  Gluthmatet Fructose in the proposition of phosphotographes phosphotogra |
| Light - hour Him gencety 17 hours  |
| M-acety 9 - acety for or N-streety Island H-acety  |
| H-aceis  |