FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI.
SCHOOL OF PHYSICAL SCIENCE
DEPARTMENT OF SCIENCE LABORATORY TECHNOLOGY
RAIN SEMESTER EXAMINATION 2013/2014 SESSION
STC 306 : MEMBRANE BIOCHEMISTRY
INSTRUCTION: Answer all questions in section A and any three from section B to D; answering at least one question from each section.
TIME ALLOWED: 2 HOURS

Section A

1. (a) Mention the three basic packaging arrangements of amphipathic lipid in aqueous environment. ....., ... and .....

(b) Use two sentences to describe the amphipathic nature of lipid molecules in a membrane. .....

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(c) Mention at least three importance of membrane flexibility and fluidity. ....., ... and .....

(d) Draw and label at least three important features of a phospholipid molecule.

(e) What is the ratio of cholesterol to phospholipid in a membrane?

(f) Mention at least four functions of membrane cholesterol.

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