Summer Examinations 2015

SLS200415N

MODULE TITLE  Processes of Life: Biochemistry
LEVEL  Five
TIME ALLOWED  Two hours

Instructions to students:

• Please enter your student number not your name on all answer booklets.

• Answer two out of four questions.

• All questions are equally weighted.

• Begin each answer in a separate booklet; label each booklet clearly with the number of the question you are answering.

• Neither books nor notes may be taken into the examination.

• You may not remove this examination paper from the examination room. For all purposes the examination paper remains the property of The University of Northampton.

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ANSWER TWO OF THE FOLLOWING QUESTIONS:

1. Describe the major mechanisms regulating fatty acid metabolism in humans.

2. Describe how enzyme activity can be regulated and discuss the significance of this in relation to bioenergetics and the processes of life.

3. Discuss how glycogen synthesis and degradation is regulated.

4. Loss of cell cycle control as a consequence of DNA mutations is thought to play a key role in the development of haematological malignancies. Discuss the role of oncogenes, tumour suppressor genes and protein phosphorylation in this process.

END OF PAPER