

**UNIVERSITY OF CUMBRIA**

**COURSEWORK REASSESSMENT REQUIREMENT**

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| **Module Code:HSOB4003** |
| **Module Title: Anatomy and Physiology** |
| **Tutor: Mark Magas** |
| **Title of the item of work: Coursework 2 - Homeostasis and gross and microscopic anatomy** |
| **Wordage: 1000 words** |
| **Details and Criteria: ( Please attach additional sheets if necessary)****Part A (40 marks)** – Homeostasis and muscle contraction – suggested 400 words but you can vary this using your own judgement. Part A includes themes that have been covered in class but tests the ability to interpret data and perform wider reading, going beyond what has been delivered in class. Ensure you use the terms and anatomical features labelled and shown in the diagram.The following diagram illustrates the homeostatic control of ventilation.1. Define homeostasis and give a brief example not related to breathing andrespiration. (5 marks)2. Research and then explain how regulation of breathing rate and depth ismaintained during respiration?(5 marks)3. Referring to the diagram above, describe and explain what you think wouldhappen if you cut each of the nerves A to E.(30 marks)LO 2 and 3**Part B (60 marks) – Annotated images – suggested 600 words but you canvary this using your own judgement.**To prepare for part B you should…* Select a body system. Make sure this is a different system to thatwhich you selected for your presentation to make sure you avoidplagiarism or self-plagiarism.
* Select 2 images that show the normal anatomy of the selected bodysystem, one image showing gross anatomy and one image showing anatomyat either the tissue or cellular level.
* Select 2 images that show the abnormal anatomy of the selected bodysystem, one image showing gross pathology and one image showingpathology at either the tissue or cellular level.
* Images can be selected in the same way as you did for your presentation. Youshould give the images, figure numbers, titles, in-text citation and providethe source in the reference list.

Then, annotate the images as follows.1. Use these images to describe how the structure of the two normal imagesrelate to the chosen systems function within the body.
2. Compare the normal and abnormal images to explain how the abnormalpathology no longer allows the body system to operate normally.

LO1,2 and 3 |
| **SUBMISSION DATE AS PER STUDENT PORTAL**To be submitted by **4*:00 PM*** on **02*/05/2025*** via Turnitin on the ModuleBlackboard. |