

# **7457-402 Level 3 Anatomy and Physiology knowledge test - Paper 3**

**November 2022**

## **Examiner Report**

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# Introduction

This document has been prepared by the Chief Examiner, it is designed to be used as a feedback tool for centres to use in order to enhance teaching and preparation for assessment. It is advised that this document be referred to when preparing to teach and then again when candidates are preparing to sit examinations.

This report provides general commentary on candidate performance and highlights common themes in relation to the technical aspects explored within the assessment, giving areas of strengths and weakness demonstrated by the cohort of candidates who sat the **September 2022** examination series. It will explain aspects which caused difficulty and potentially why the difficulties arose, whether it was caused by a lack of knowledge, incorrect examination technique or responses that failed to demonstrate the required depth of understanding.

The document provides commentary on the following assessment:  
**7457-402 Level 3 Anatomy and Physiology Knowledge test Paper 3.**

# Theory Exam – September 2022

## Grade Boundaries and distribution

Assessment: **7457-402**

Series: **September 2022**

Below identifies the final grade boundaries for this assessment, as agreed by the awarding panel and the pass rate for this series:

<b>Total marks available</b>	<b>60</b>
Pass mark	32
Pass rate	47%

# Chief Examiner Commentary

## General Comments on Candidate Performance

**Assessment component: 7457-402**

**Series: September 2022**

Generally, the candidates displayed an improved ability to read and understand the questions compared to the previous series. Many answers given to the recall questions clearly answered the question. However, where the questions required fuller descriptions or explanations to demonstrate understanding of topics (AO2), candidates missed out on accessing the higher marks.

Some candidates offered facts, one and two-word answers, or a brief statement instead of a sufficient explanation for an answer. This was in some instances linked with the focus of the question being incorrectly addressed. The least effective answers were seen in the questions that asked to explain a function of something, where a function may have been given but a supporting explanation was not supplied.

100% of the cohort for this series was made up of candidates resitting this exam, many for the fourth, fifth or sixth time.

This paper was comprised of questions from Unit 361 only which consists of four learning outcomes.

### Learning outcome 1

This outcome focuses on anatomical and physiological terminology and these questions were attempted quite effectively. The strengths came with the definitions of some physiological terms and the modes of joint movements. A weakness was the definition of the term quadriplegia.

### Learning outcome 2

This outcome focuses on anatomical landmarks with candidates being asked to identify bones relating to different landmarks. The responses to this question were quite poor as per previous series.

### Learning outcome 3

This outcome focuses on the normal form and function of the body systems. It contains the most subject topics with the majority of the marks to be gained in this outcome with 48 marks available over 12 questions including the Extended Response Question (ERQ). The questions were attempted with variable degrees of effectiveness. Strengths were demonstrated in questions relating to the structures found within the layers of skin, the components found in plasma and structures within the kidney nephron. Weaknesses were demonstrated when describing the function of hormones, explaining the breakdown of energy producing nutrients and the functions of components of the eye. The questions which relied upon explanations to demonstrate depth were poorly attempted in this outcome. The ERQ was well attempted as candidates covered a good breadth of content. However, although most candidates demonstrated a good basic knowledge and understanding of the subject matter, most did not go into sufficient detail to demonstrate a depth of understanding to achieve the higher marks.

## Learning outcome 4

This outcome focuses on the significant differences in anatomy and physiology of birds and reptiles compared to dogs, cats, small mammals. A strength was demonstrated in most candidates' ability to state at least two differences between the excretory system of a bird and a cat. This question was largely addressed well, and any weakness demonstrated came from candidates not recalling more than two correct answers or answering in relation to another body system.

### Extended Response Question

The question focused on the structure and function of the respiratory system. Most candidates demonstrated at least a basic knowledge of the functions of the structures, but the biggest limiting factor was the depth/detail of the discussion. The best answers showed a greater depth of understanding although with some omissions and a limited ability to bring all the information together. Some candidates displayed an inability to fully explain points. Also, there were some omissions/inaccuracies or confusion as to the roles of the structures under discussion, particularly relating to internal and external respiration.

Performance has improved from the previous series with 80% of candidates accessing marks within Band 2 however, 0% of candidates accessed marks within Band 3.

### Overall comments

It is advisable that candidates take care when reading the questions and need to be familiar particularly with the variety of command verbs and the types of responses that will be expected of them to access the full range of marks available.

In preparation for the Extended Response Question, the key areas of focus to improve candidates' marks over a range of abilities are:

1. Plan the answer to aid a focused discussion.
2. Include a wide range of descriptive information that relates to the topic. A wider range of basic information will improve marks in the lower bands.
3. Improving the candidate's ability to explain and justify their comments will improve their marks in the higher bands.

Previous papers and examiner reports are available to support candidates with preparation for future exams here:

<https://www.cityandguilds.com/qualifications-and-apprenticeships/land-based-services/animal-management/7457-veterinary-nursing#tab=documents>

For any candidate wishing to appeal their result, centres can find information regarding the process for this here:

[www.cityandguilds.com/delivering-our-qualifications/centre-development/centre-document-library](http://www.cityandguilds.com/delivering-our-qualifications/centre-development/centre-document-library)