# Knowledge assessment 2

**Assessment event 2 of 6**

## Criteria

### Unit code, name and release number

MSL954003 - Relate anatomical and physiological features to laboratory samples (1)

### Qualification/Course code, name and release number

MSL50118 - Diploma of Laboratory Technology (1)

MSL40118 - Certificate IV in Laboratory Techniques (1)

\*\*Amend the qualification box before distributing to the student. The information here should only contain the qualification the student is enrolled in\*\*

## Student details

### Student number

### Student name

## Assessment Declaration

* This assessment is my original work and no part of it has been copied from any other source except where due acknowledgement is made.
* No part of this assessment has been written for me by any other person except where such collaboration has been authorised by the assessor concerned.
* I understand that plagiarism is the presentation of the work, idea or creation of another person as though it is my own. Plagiarism occurs when the origin of the material used is not appropriately cited. No part of this assessment is plagiarised.

### Student signature and Date

Version: 1.0

Date created: 05/08/2019

Date modified: 06/12/2019

For queries, please contact:

Innovative Manufacturing, Robotics and Science SkillsPoint

Hamilton Campus

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This assessment can be found in the: [Learning Bank](https://share.tafensw.edu.au/share/access/searching.do?doc=%3Cxml%2F%3E&in=P7ac4831b-430a-4b8d-8b56-f7b32ed5b9cf&q=&type=standard&sort=rank&dr=AFTER)

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## Assessment instructions

Table 1 Assessment instructions

| Assessment details | Instructions |
| --- | --- |
| **Assessment overview** | The objective of this assessment is to assess your knowledge as would be required to understand the basic functions of body systems and diseases from a pathology laboratory context. |
| **Assessment Event number** | 2 of 6 |
| **Instructions for this assessment** | This is a written assessment and it will be assessing you on your knowledge of the unit.  This assessment is in 3 parts:   1. Multiple choice questions 2. Short answer questions 3. Assessment feedback |
| **Submission instructions** | On completion of this assessment, you are required to upload it or hand it to your trainer for marking.  It is important that you keep a copy of all electronic and hardcopy assessments submitted to TAFE and complete the assessment declaration when submitting the assessment. |
| **What do I need to do to achieve a satisfactory result?** | To achieve a satisfactory result for this assessment all questions must be answered correctly. |
| **What do I need to provide?** | Pens, student workbook for this unit |
| **Due date/time allowed** | 1.5 hours |
| **Assessment feedback, review or appeals** | Appeals are addressed in accordance with Every Student’s Guide to Assessment. |

## Part 1: Multiple choice

Read the question and each answer carefully. Put an X in the table next to your chosen answer.

1. The cardiovascular system is responsible for:

Table 2 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. pumping blood around the body |  |
| 1. how fast you breathe |  |
| 1. the processing of nutrients |  |
| 1. all of the above |  |

1. Blood has four main functions. They are:

Table 3 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. transport, defence, regulation, corpuscular |  |
| 1. transport, deterrence, regulation, clotting |  |
| 1. transport, defence, regulation, clotting |  |
| 1. transport, defence, regurgitation, clotting |  |

1. The small intestine is a component of the:

Table 4 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. stomach |  |
| 1. large intestine |  |
| 1. digestive system |  |
| 1. excretory system |  |

1. The skeletal system:

Table 5 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. supports the body |  |
| 1. consists of bones |  |
| 1. contains connective tissue |  |
| 1. all of the above |  |

1. The heart is a part of the:

Table 6 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. endocrine system |  |
| 1. muscular and cardiovascular system |  |
| 1. lymphatic system |  |
| 1. respiratory and cardiovascular system |  |

1. Immunohaematology is the study of:

Table 7 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. the blood |  |
| 1. blood products |  |
| 1. white blood cells |  |
| 1. the antibodies and antigens on RBC |  |

1. All red blood cells begin life in the:

Table 8 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. veins |  |
| 1. bone marrow |  |
| 1. arteries |  |
| 1. lymph nodes |  |

1. Innate immunity and acquired immunity are described as:

Table 9 Multiple choice

| Answer choices | Put X next to your answer |
| --- | --- |
| 1. you are born with innate immunity, acquired immunity comes from an external source |  |
| 1. you are born with acquired immunity, innate immunity comes from an external source |  |
| 1. innate immunity comes naturally, whilst acquired immunity comes at a price |  |
| 1. acquired immunity comes from aging, innate immunity is a function of living in modern society |  |

## Part 2: Short answer

Read the question carefully. The recommended word count is listed at the end of each question.

1. List the five different types of leucocytes (5 words):
2. List the major blood groups (4 words):
3. List the two types of acquired immunity (2 words):
4. Describe innate immunity and provide two examples of how the body supports this (15 to 30 words):
5. Give two examples of metabolic diseases (2 to 6 words):
6. What is cancer (3 to 10 words)?
7. Complete the following table on microorganisms and their effect on the human body (1 to 5 words per cell):

Table 10 Complete the table

|  |  |  |
| --- | --- | --- |
| Microorganism: | *E.Coli* | *Yeast* |
| Is it a normal human flora?  (yes / no) |  |  |
| Can it cause disease?  (yes / no) |  |  |
| Give an example of a specimen that could contain it. |  |  |

1. Give two examples of hormonal diseases and explain which part of the body will be sampled for analysis (5 to 10 words):
2. Explain the role of the large intestine (5 to 20 words):
3. Complete the table below by:
   1. Listing the missing body systems in column A (2 words per cell)
   2. Describing the function of the body systems in column B (4 to 10 words per cell)
   3. Listing two components of that system in column C (2 words per cell)

Table 11 Complete the table

| System | Functions | Two components or organs in the system |
| --- | --- | --- |
| Skeletal system |  |  |
|  |  | Muscles, tendons, ligaments |
|  | Takes in and absorbs nutrients and eliminates waste |  |
|  |  | Brain, spinal cord and nerves |
| Urinary system |  |  |
|  | Reproduction of the species |  |
| Respiratory system | Gives the body air to supply oxygen to the cells through the blood and eliminates carbon dioxide |  |
|  |  | Heart, blood, arteries, veins, capillaries, bone marrow |
|  |  | Thyroid and parathyroid glands, pineal gland, adrenal glands, testes, ovaries, thymus, pancreas, pituitary gland |
| Lymphatic / immune system |  |  |
|  | Provides first line of defence against infection, maintains body temperature, gets rid of waste, synthesises Vitamin D |  |
| Sensory system |  |  |

1. Complete the table below by:
   1. Listing the tissue type in column A (1 to 2 words per cell)
   2. Describing the function of each of the tissue types (1 to 10 words per cell):

Table 12 Complete the table

| Tissue | Type | What is the function of this tissue? |
| --- | --- | --- |
|  | Cardiac |  |
| Skeletal |  |
| Smooth |  |
|  | Dense regular |  |
| Cartilage |  |
| Adipose |  |
| Blood |  |
|  | Simple cuboidal |  |
| Simple squamous |  |
| Stratified squamous |  |

## Part 3: Assessment Feedback

*NOTE: This section* ***must*** *have the assessor signature and student signature to complete the feedback.*

### Assessment outcome

Satisfactory

Unsatisfactory

### Assessor Feedback

Was the assessment event successfully completed?

If no, was the resubmission/re-assessment successfully completed?

Was reasonable adjustment in place for this assessment event?  
*If yes, ensure it is detailed on the assessment document.*

Comments:

### Assessor name, signature and date:

### Student acknowledgement of assessment outcome

Would you like to make any comments about this assessment?

### Student name, signature and date

***NOTE: Make sure you have written your name at the bottom of each page of your submission before attaching the cover sheet and submitting to your assessor for marking.***