**Review Worksheet: Peripheral NS overview, and Sensory NS**

Name: ……………………………………

*Do these questions, using your learning resources. Look at the “marks” to give you an idea of the level of detail required in the response (formative only – does not count towards your grade). At the end, mark your work, correct it, and fill in the reflection section. Questions marked \* require you to use reasoning, inferring and application of knowledge, or perhaps extra research to get the answer. It won’t be right there in the text.*

1: How any pairs of nerves attach at the base of the brain?

(1 mark)

*………………………………………………………………………………………………………………….*

2: How many pairs of spinal nerves are there?

(1 mark)

*………………………………………………………………………………………………………………….*

3: What are clusters of cell bodies, located outside of the CNS, called?

(1 mark)

*…………………………………………………………………………………………………………………*

4: Where do sensory neurons in spinal nerves enter each segment of the spinal cord?

(1 mark)

*…………………………………………………………………………………………………………………*

5: What type of neurons are sensory neurons, and where are their cell bodies located.

(2 marks)

………………………………………………………………………………………………………………….

………………………………………………………………………………………………………………….

6: List the different receptors that are located in the skin:

(6 marks – 1 mark each)

*………………………………………………………………………………………………………………….*

7: Fill in the following table

(19 marks) – one for each correct.

|  |  |  |
| --- | --- | --- |
| **Receptor Type** | **Location** | **Function** |
|  |  | Provide information about body positioning to the brain |
|  |  | Send information about the visual environment to the brain |
| Hair cells and stereocilia |  |  |
|  |  | Send signals to the brain about smell |
| Specialised cells in the epithelium of the tongue | In the epithelium of the tongue |  |
|  |  | Detect surface and core temperature |
|  |  | Detect osmotic pressure |
|  |  | Detect blood pressure |
|  |  | Detect Blood pH and blood gas concentration |
|  |  | Detect risk of tissue damage, painful stimuli |

8: Once sensory stimulation has occurred, describe the resulting changes in membrane potential and how these are propagated as a nerve impulse.

(20 marks – any 20 of the 24 possible in answer key)

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………



9: Describe the structures and processes involved in maintaining Ca2+ homeostasis if Ca2+ levels in the blood fall.

(8 marks)

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………

Go back and mark your work using the marking key provided. What score did you get? /59

*I included enough detail in my answers.*



*I was able to find information in the text/powerpoint presentation.*

*I was able to reason and infer where the information wasn’t directly in the text (questions with \*).*

*I marked my work and wrote down any answers where I missed marks.*