**Review Worksheet: CNS Protection and Support; Comparing NS and Endocrine**

**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: List 3 reasons why the brain and spinal cord require a high level of protection from damage.

(3 marks)

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2: List the three main structures that are involved in protection of the brain and spinal cord.

(3 marks)

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3: How does the bone protect the CNS from damage?

(2 marks)

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4: Give two reasons that the intervertebral discs are important in the spinal column.\*

(2 marks)

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5: Describe the location and function of each of the three meningeal layers:

(9 marks)

|  |  |  |  |
| --- | --- | --- | --- |
| **Layer** | **Structure** | **Location** | **Function** |
| Dura mater |  |  |  |
| Arachnoid mater |  |  |  |
| Pia mater |  |  |  |

9: How does cerebrospinal fluid (CSF) form?

(2 marks)

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10: What is the composition of the CSF?

(3 marks)

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11: List and describe the three functions of the CSF:

(9 marks)

|  |  |
| --- | --- |
| **CSF Function** | **Description** |
|  |  |
|  |  |
|  |  |

12: What function do both the endocrine and nervous system have in common?

(1 mark)

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13: Fill in the following table comparing the differences between NS and Endocrine systems:

(12 marks)

|  |  |  |
| --- | --- | --- |
| **Characteristic** | **Nervous System** | **Endocrine System** |
| Nature of Message |  |  |
| Transport of Message |  |  |
| Cells affected |  |  |
| Type of response |  |  |
| Speed of response |  |  |
| Duration of Response |  |  |



14: Draw an annotated flow diagram or write a series of steps to describe how Growth Hormone is produced and regulated, and its effects on target tissues.

(20 marks)

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Go back and mark your work using the marking key provided. What score did you get? /66

*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.*