**Review Worksheet: Vaccines**

**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: Define vaccination

(3 marks)

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2: Live Attenuated vaccines use a weakened form of the pathogen to provoke immunity without causing disease symptoms. Describe how the pathogen is weakened to make the vaccine.

(6 marks)

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3: How are inactivated/killed vaccines made?

(4 marks)

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4: What are toxoid vaccines?

(2 marks)

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5: How are subunit vaccines made?

(3 marks)

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6: How do mRNA vaccines work?

(3 marks)

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7: Which provides longer lasting immunity – live attenuated, or inactivated vaccine?

(1 mark)

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8: What is a risk with live attenuated vaccines that is not present with other vaccine types?

(1 mark)

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

9: List one disease currently prevented by each vaccine type:

(5 marks)

|  |  |
| --- | --- |
| **Vaccine Type** | **One Disease Prevented** |
| Live Attenuated |  |
| Inactivated/Killed |  |
| Toxoid |  |
| Subunit |  |
| mRNA |  |

10: List three ways vaccines can be administered.

(3 marks)

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11: Describe in detail what happens from when the vaccine is injected, until antibody for the specific disease is produced. \*

(7 marks)

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12: Draw a graph to show the antibody response after the first and second vaccine doses are given.

(3 marks)

13: Explain why the antibody concentration rises so quickly after the second vaccination.\*

(4 marks)

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14: List and describe three benefits of vaccination:

(3 marks)

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15: List two common side-effects some people may experience after vaccination.

(1 mark)

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16: What is herd immunity and who does it protect?

(3 marks)

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17: List and Describe the layers of the meninges.

(4 marks)

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Go back and mark your work using the marking key provided. What score did you get? /56

*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.*