Infection and response

Biology Paper 1 | 30 quick questions

GCSE science knowledge recall

Answer online, marked instantly

Name: _____ **Date:** _____ **Score:** _____ **/ 30**

1 What is the name for a microorganism that causes an infectious disease?

2 Which type of pathogen reproduces only inside living cells, damaging them as it does so?

3 Which viral disease of humans causes a fever and a red skin rash and is spread by inhaling droplets from sneezes and coughs?

4 HIV is treated with drugs that stop the virus spreading in the body. What are these drugs called?

5 Which plant virus causes a mosaic pattern of discoloured patches on leaves, reducing photosynthesis?

6 Name the bacterium that causes food poisoning and is found in undercooked chicken.

7 Which sexually transmitted bacterial disease causes a thick yellow or green discharge and is now often resistant to penicillin?

8 Which fungal disease causes purple or black spots on rose leaves?

9 Malaria is caused by a protist. Which animal is the vector that carries it?

10 Which acid does the stomach make that kills most pathogens swallowed with food?

11 Name the tiny hairs on cells lining the trachea that sweep mucus up and away from the lungs.

12 What is the name for the process in which a white blood cell engulfs and digests a pathogen?

13 Some white blood cells make proteins that counteract the poisons released by bacteria. What are these proteins called?

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14 White blood cells called lymphocytes make proteins that lock onto antigens on a pathogen. What are these proteins called?

15 A vaccine contains a small amount of which form of a pathogen?

16 Explain why a vaccinated person does not usually become ill when the real pathogen enters the body.

17 Antibiotics such as penicillin kill which type of pathogen?

18 Which scientist discovered penicillin after noticing mould on a bacterial culture plate?

19 The heart drug digitalis was first extracted from which plant?

20 In a drug trial, some patients are given a dummy pill with no drug in it. What is the dummy pill called?

21 What name is given to a trial in which neither the doctors nor the patients know who has the real drug?

22 New drugs are tested for toxicity, efficacy and which other property, meaning the amount that should be given?

23 A mouse lymphocyte is fused with a tumour cell to make monoclonal antibodies. What name is given to the fused cell?

Higher, Separate science only

24 Explain why monoclonal antibodies can be used to deliver a drug only to cancer cells.

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25 Pregnancy tests use monoclonal antibodies that bind to which hormone in urine? Give the abbreviation.

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26 A plant lacks magnesium ions. Leaves turn yellow because they cannot make enough chlorophyll. What is this condition called?

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27 A plant has stunted growth because it cannot make enough protein. Which mineral ion is it short of?

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28 Name the small insects that feed on phloem sap and can spread plant viruses.

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29 Name the tough waxy layer on the surface of leaves that acts as a physical barrier to pathogens.

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30 The leaves of a mimosa plant fold up when touched, startling animals. Is this a physical, chemical or mechanical defence?

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