

Gr 11 Microbes

1. Ways in which human immunodeficiency virus is transmitted *

- ☐ Sexual intercourse with an infected person
- ☐ Tending to a wound of a bleeding infected person
- ☐ Pregnancy
- ☐ All of the above
- ☐ Only options 1 and 2

2. What do we call treatment that is given to prevent a specific disease? *

- ☐ Prophylaxis
- ☐ Antibiotic
- ☐ Intravenous quinine
- ☐ Vitamins

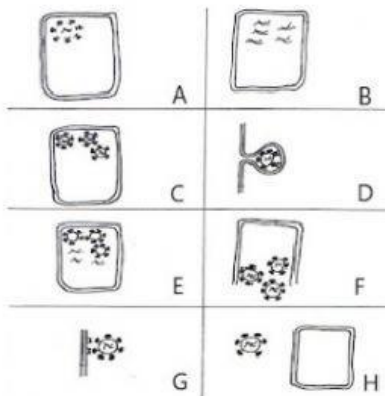
3. Ways in which someone could avoid getting tinea pedis *

- ☐ Keep feet dry and clean
- ☐ Walk barefoot in public areas
- ☐ Keep feet moist and warm
- ☐ Walk at a fast pace

4. If a virus is metabolically inactive without a host, it is said to be a... *

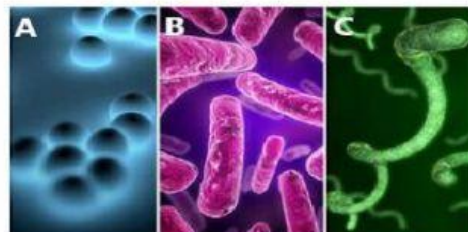
- ☐ pathogen
- ☐ obligate intracellular parasite
- ☐ obligate intercellular parasite
- ☐ opportunistic parasite

5. Study the representation of viral reproduction below. Using the letters only, put the steps into the correct sequence *



- ☐ H, G, D, C, A, E, B, F
- ☐ G, E, B, A, D, F, H, C
- ☐ H, G, D, A, B, E, C, F
- ☐ H, G, D, A, B, C, E, F

6. Refer to the figures below. Using the letters only, give the correct sequence that would correctly label the bacteria as bacillus, coccus, and spirillum. *



- ☐ C, A, B
- ☐ B, A, C
- ☐ B, C, A
- ☐ A, B, C

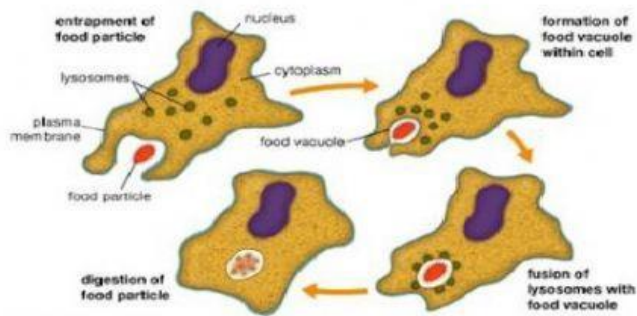
7. Which part of a bacterial structure protects the bacterium against the environment, stopping water and nutrient loss *

- ☐ Fimbriae
- ☐ Pilus
- ☐ Glycocalyx
- ☐ Cell wall

8. Why are certain bacteria positive contributors to the environment. *

- ☐ They decompose and convert wastes into nutrients
- ☐ They play key roles in the nitrogen cycle
- ☐ They contribute to soil fertility
- ☐ All of the above

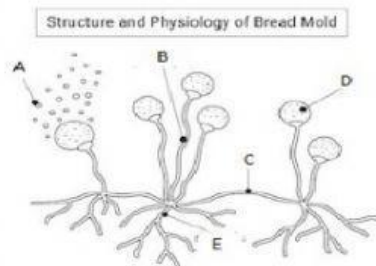
9. What process is depicted in the image below, representing an amoeba obtaining nutrients for survival. *



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- ☐ Pinocytosis
- ☐ Protist phagocytosis
- ☐ Protist engulfing
- ☐ Ingestion

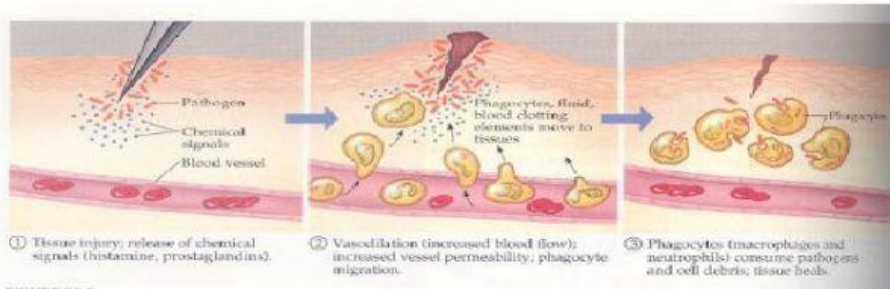
10. Refer to the diagram below and provide labels for the structures labelled A, C, and E respectively. *



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- ☐ Spore, Hypha, Stamen
- ☐ Pollen, Stolon, Sporangium
- ☐ Spore, Stolon, Rhizome
- ☐ Spore, Stolon, Rhizoid

11. Refer to the image below depicting an immunity second line of defence. What is being represented here? *



- ☐ Secretion
- ☐ Inflammation
- ☐ Acquired immunity
- ☐ Specific passive immunity

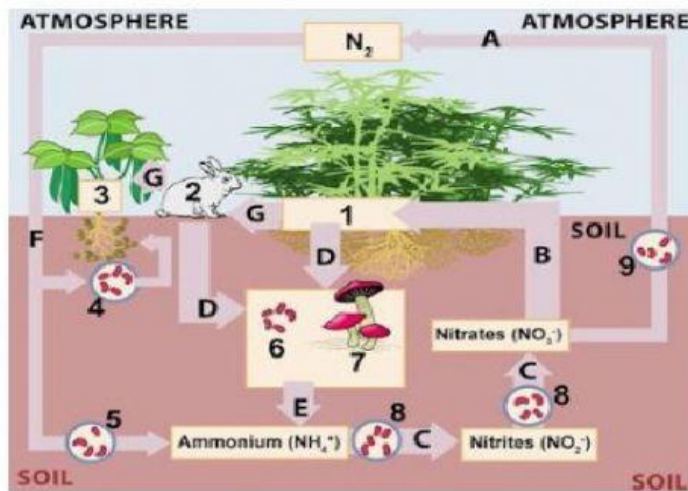
12. What is the role of antibodies in our immune system? *

- ☐ Identify specific antigens of pathogens.
- ☐ Mark antigens of microbes entering the bloodstream, so leukocytes can destroy them
- ☐ Both of the above
- ☐ None of the above

13. Which of the following is FALSE regarding secondary immune response. *

- ☐ Short lag phase
- ☐ Very sharp increase in antibody concentrations
- ☐ Slow response
- ☐ Disease does not typically manifest itself

14. Study the representation of the nitrogen cycle below and answer the questions that follow. The correct labels for processes D and F respectively, are...



- ☐ Decomposition and Nitrogen fixing
- ☐ Decomposition and nitrification
- ☐ Decomposition and ammonification
- ☐ Assimilation and Nitrogen fixing

15. Referring to the diagram above in question 14. The correct labels for the types of useful bacteria labelled 5, 8 and 9 respectively are...

- ☐ nitrogen-fixing bacteria, denitrifying bacteria, nitrifying bacteria
- ☐ nitrogen-fixing soil bacteria, nitrifying bacteria, denitrifying bacteria
- ☐ denitrifying bacteria, nitrifying bacteria, ammonifying bacteria
- ☐ nitrogen-fixing soil bacteria, nitrate bacteria, nitrogen bacteria