

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

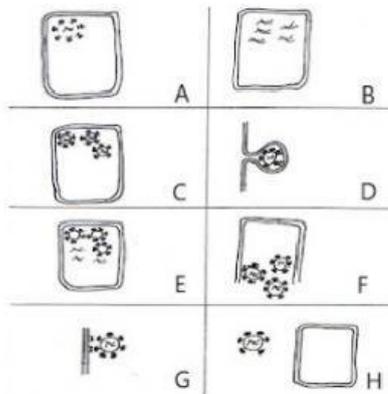
3. Ways in which someone could avoid getting tinea pedis *

- 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... *

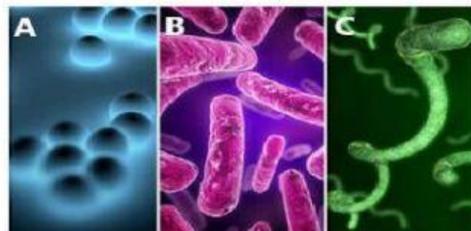
- pathogen
- obligate intracellular parasite
- obligate intercellular parasite
- opportunistic parasite

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

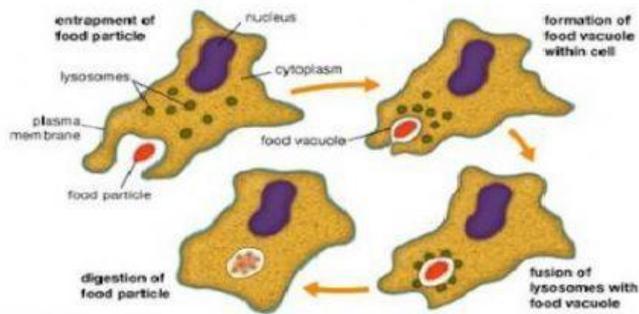
7. Which part of a bacterial structure protects the bacterium against the environment, stopping water and nutrient loss *

- 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

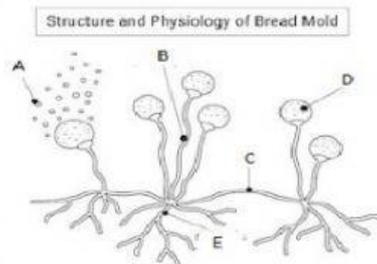
9. What process is depicted in the image below, representing an amoeba obtaining nutrients for survival. *



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- Pinocytosis
- Protist phagocytosis
- Protist engulfing
- Ingestion

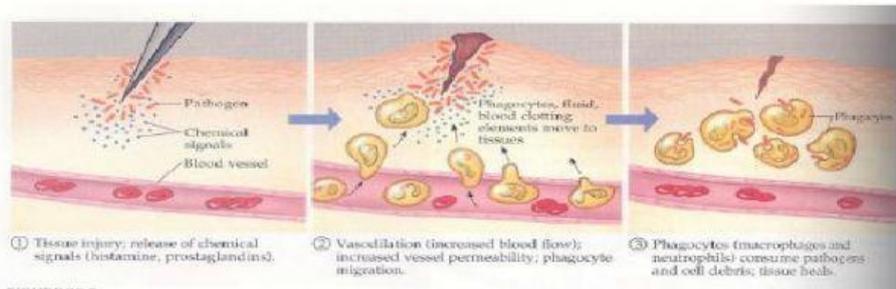
10. Refer to the diagram below and provide labels for the structures labelled A, C, and E respectively. *



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- Spore, Hypha, Stamen
- Pollen, Stolon, Sporangium
- Spore, Stolon, Rizome
- 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

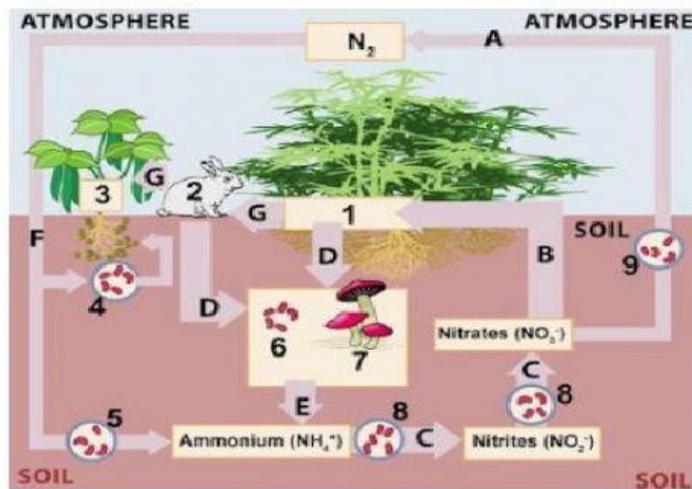
12. What is the role of antibodies in our immune system? *

- 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