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GRADE 9

Natural Science

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A. Paper structure for the olympiad

Fifty (50) multiple Choice questions in accordance to the different levels of Bloom's taxonomy.

B. How does it align with the curriculum?

Questions of each CAPS topic are aligned to the time covered throughout each term, i.e. topics that require more time (as per the ATP) will include more questions.

C. How it goes beyond?

The olympiad includes some (between 10-12%) general knowledge questions related to the topics or units covered in the CAPS curriculum.

D. Sample questions

1. Multiple Choice Questions

1. Which of the following correctly shows the order of organization in living things from smallest to largest?

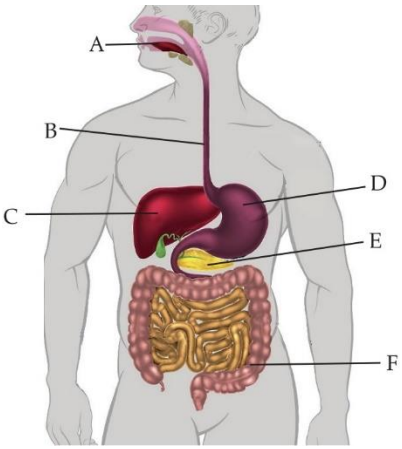
   A. Organ, Tissue, Cell, Organism, System
   B. Cell, Tissue, Organ, System, Organism
   C. Tissue, Cell, Organ, System, Organism
   D. System, Organism, Cell, Tissue, Organ (1)

2. What is one main difference between animal cells and plant cells?
   A. Animal cells have a cell wall, but plant cells do not.
   B. Plant cells have chloroplasts, but animal cells do not.
   C. Animal cells have a large central vacuole, but plant cells do not.
   D. Plant cells have a flexible cell membrane, but animal cells do not. (1)

3. What is a unique characteristic of stem cells?

   A. They can turn into any type of cell in the body.
   B. They are found only in the heart.
   C. They are cells that can never divide.
   D. They only exist in plants. (1)

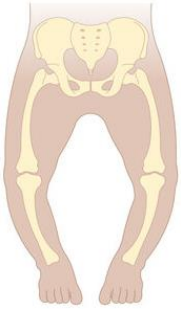
4. Ingestion occurs at … (1)



https://www.teachoo.com/15769/3641/Question-2/category/Case-Based-Questions-MCQ/

5. According to the 2022 National Youth Tobacco Survey, about 10.3% of middle school students reported using e-cigarettes, highlighting a concerning trend of vaping among young adolescents. What is a potential health risk of vaping?
   A. It increases your intake of vitamins.
   B. It can damage your lungs and respiratory system.
   C. It helps improve your memory and concentration.
   D. It makes your heart stronger and healthier. (1)

6. Which ONE of the following is NOT a musculoskeletal health issue? (1)

A	B	C	D
			

7. The scientific name of the H_2SO_4 is …
   A. Hydrochloric acid
   B. Hydrogen Sulphur oxide
   C. Sulfuric acid
   D. Sulfuric hydroxide (1)

8. Water is an example of a …
   A. Element
   B. Compound
   C. Diatomic molecule
   D. Mixture (1)

9. Which ONE of the following is a balanced equation?
   A. $H_2 + O_2 \rightarrow 2H_2O$
   B. $2H_2 + O_2 \rightarrow H_2O$
   C. $2H_2 + O_2 \rightarrow 2H_2O$
   D. $H_2 + 2O_2 \rightarrow H_2O$ (1)

10. Houses built near the coast have to be very considerate of rust. This is because...
   A. The paint used on houses by the coast is different.
   B. Coastal areas have higher humidity and salt levels, which accelerate rusting.
   C. Coastal areas have more sunlight, which causes metal to rust.
   D. The materials used in coastal houses are more prone to rust. (1)