

# BIOLOGY



## 2025 JAMB

### FREE LIKELY

# Questions and Answers

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OFFICIAL JULIUS CEO OF EXAMKING (WhatsApp 08161581089)

2023.

If T represents the gene for tallness while t represents dwarfness

When a tall (TT) crop is crossed with a dwarf (tt) crop, the resultant crops will be

- A ☐ 100% dwarf
- B ☒ 100% tall
- C ☐ 50% tall and 50% dwarf
- D ☐ 75% tall and 25% dwarf.

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2019. The dog belong to vertebrate of

- A ☒ Mammals
- B ☐ Aves
- C ☐ Pisce
- D ☐ Amphibian

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2015. Corona virus was caused by ?

- A ☒ Virus
- B ☐ Bacteria
- C ☐ Plasmodium
- D ☐ Algae

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2016. Gametogenesis take's place in the

- A ☐ Sperm
- B ☐ Vas deferens
- C ☐ Seminiferous tubule
- D ☒ Gonads

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2017.

The division of cytoplasm in a cell is known as

- A ☒ Cytokinesis
- B ☐ Plasmolysis
- C ☐ Isogamy
- D ☐ Protoplasm

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2018.

All of the followings are evidence of evolution except\_?

- A ☐ Comparative anatomy
- B ☐ Geographical distribution
- C ☒ Growth of nails on fingers of animals
- D ☐ Fossil records

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2020.

Living cells undergoes all EXCEPT

- A ☐ Osmosis
- B ☐ Diffusion
- C ☒ Tyndall effect
- D ☐ Plasmolysis

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2021.

Cytokinesis of mitosis is a process that ensures that

- A ☐ A. each daughter cell gets the necessary organelle
- B ☒ B. there is distribution of a complete set of genes into each daughter cell.
- C ☐ C. daughter cells inherit new genetic combinations.
- D ☐ D. worn out organelles are excluded from daughter cells

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**2022.** Which of the following cycles involves the process of precipitation and transpiration?

- A ☒ A. Water cycles
- B ☐ B. Carbon cycle
- C ☐ C. Nitrogen cycle
- D ☐ D. oxygen cycle

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**2023.** A man who is heterozygous for the disease haemophilia marries a woman who is double recessive for haemophilia. What percentage of their offspring would have the disease?

- A ☐ A. 0%
- B ☐ B. 25%
- C ☒ C. 50%
- D ☐ D. 75%

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**2019.** Which of the following components make up an ecosystem?

- A ☐ A. Decomposers, animals and non-living factors
- B ☒ B. Living and non-living factors
- C ☐ C. Plants and non-living factors
- D ☐ D. Plants decomposers and non-living factors

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**2015.** A community reaches a climax when

- A ☐ A. only pioneer organisms are present
- B ☐ B. new habitats are constantly being formed
- C ☐ C. there is an introduction of new plants and animal species within the community
- D ☒ D. the composition and structure of communities remains constant over time

D ☒ the composition and size of a community remains constant over a long period

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**2016.** A person suffering from obstruction of the bile duct is advised not to eat fats and oil because

- A ☐ bile digests fats and oil
- B ☐ fats and oil can only be absorbed when bile is absent
- C ☒ bile emulsifies fat and oil
- D ☐ bile adds water to digesting food

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**2017.** Which of the following organs of the alimentary canal is not correctly matched with its function?

- A ☐ Gall bladder- stores bile
- B ☐ Liver - stores glycogen
- C ☒ Appendix - releases enzymes
- D ☐ Teeth = grind food

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**2018.** The colour change to be observed in step IV is

- A ☐ blue-black
- B ☒ brick-red
- C ☐ purple
- D ☐ violet

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**OFFICIAL JULIUS CEO OF EXAMKING (WhatsApp 08161581089)**

**2020.** A student used the following steps in testing for a non-

reducing sugar.

I. added Benedict's solution to the sugar solution

II. added dilute hydrochloric acid to the sugar and boiled it;

III. added sodium hydroxide solution to the solution in II. and boiled;

IV. added Benedict's solution to the cooled solution in III.

Use this information above to answer the question.

What is the importance of step II in the testing process? To

- A ☒ neutralize the sugar solution
- B ☐ soften the sugar solution
- C ☐ change the colour of the sugar solution
- D ☐ increase the acid content of the sugar solution

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**2021.** A student used the following steps in testing for a non-reducing sugar.

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II. added dilute hydrochloric acid to the sugar and boiled it;

III. added sodium hydroxide solution to the solution in II. and boiled;

IV. added Benedict's solution to the cooled solution in III.

Use this information above to answer the question.

Why did the student add the dilute hydrochloric acid to the sugar solution in step II? To

- A ☐ oxidize the sugar solution
- B ☒ hydrolyse the sugar solution
- C ☐ dry the sugar solution

D ☐ increase the volume of the sugar solution

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2022.

The main difference between a seed and a fruit is that a fruit

- A ☐ is large while a seed is small
- B ☒ has two scars while a seed has one
- C ☐ is pigmented while a seed is not
- D ☐ can be dispersed by animals while a seed cannot

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**OFFICIAL JULIUS CEO OF EXAMKING (WhatsApp 08161581089)**

2023.

Which of the following characteristic features is not associated with monocotyledonous plants?

- A ☒ Well differentiated sepals and petals
- B ☐ Presence of fibrous root system
- C ☐ Presence of narrow leaves
- D ☐ Flora parts are in multiples of three

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2019.

Ability of the human eye to focus images accurately on the retina is called

- A ☐ astigmatism
- B ☐ myopia
- C ☐ adjustment
- D ☒ accommodation

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2015.

A person had an accident that affected the skull but not the nose and later lost the sense of smell. The accident must have affected

nose and later lost the sense of smell. The accident must have affected the

- A ☐ nose by extension
- B ☒ olfactory lobes of the brain
- C ☐ passage from the nose to the brain
- D ☐ part of the skull near the nose

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2016. A farmer who wants to keep seeds for three years before planting and wants to prevent them from sprouting uses

- A ☐ auxin
- B ☐ gibberellins
- C ☒ abscisin
- D ☐ cytokinins

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2017. Blood pressure is higher in the arteries as a result of

- A ☐ stree
- B ☒ contraction and relaxation
- C ☐ blockage in the arteries
- D ☐ presence of valves

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2018. A plant that commonly undergoes vegetative propagation by means of leaves is

- A ☐ Hibiscus
- B ☒ Bryophylum
- C ☐ Croton
- D ☐ Spirogyra

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**2020.** Which of the following features could be used to determine the growth of a seedling?

- A ☐ Number of flowers
- B ☐ Number of leaves
- C ☐ Length of flowers
- D ☒ Length of radicle

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**2021.** Water and salts are both lost from the human body in

- A ☐ breath and sweat
- B ☐ breath and Urine
- C ☐ breath, urine and sweat
- D ☒ sweat and urine

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**OFFICIAL JULIUS CEO OF EXAMKING (WhatsApp 08161581089)**

**2022.** When a Spirogyra filament is placed in a concentrated salt solution for 30 minutes, the cell would become

- A ☒ plasmolysed
- B ☐ turgid
- C ☐ shortened
- D ☐ elongated

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**2023.** Which of the following cells is a specialized cell?

- A ☐ Amoeba
- B ☐ Plasmodium
- C ☒ Guard cell

D ☐ Meristematic cell

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**2019.** Which of the following organisms is not a protozoan?

- A ☐ Amoeba
- B ☒ Ascaris
- C ☐ Plasmodium
- D ☐ Paramecium

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**2015.** The inability of an organism to adapt to its habitat can lead to

- A ☐ dormancy
- B ☐ adaptation
- C ☒ extinction
- D ☐ survival

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**2016.** In which of the following insects is group instinct not displayed?

- A ☐ Soldier ants
- B ☒ Cockroaches
- C ☐ Honey bees
- D ☐ Termites

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**2017.** Which of the following terms is associated with natural selections?

- A ☐ adaptive radiation

- B ☐ Differential reproduction  
C ☐ Population variability  
D ☒ Survival of the fittest

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**2018.** Which of the following scientists did not contribute to the development of genetics?

- A ☐ Wilhem Johannsen  
B ☐ Felix Durjadin  
C ☐ Thomas Morgan  
D ☒ Gregor Mendel

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**2020.** Scientists who study genetics are known as

- A ☐ genealogist  
B ☒ geneticist  
C ☐ mendalists  
D ☐ genescientists

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**OFFICIAL JULIUS CEO OF EXAMKING (WhatsApp 08161581089)**

**2021.** A cross between two parents produced four offspring's with blood groups AB, BB, BO and AO. what is the blood group of their parents?

- A ☐ AA and BO  
B ☐ BB and AO  
C ☒ AB and BO  
D ☐ AB and AO

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**2022.** A sick baby was successfully transfused with blood from the father who has blood group AB.

What is the group of the the sick baby?

- A ☐ A
- B ☐ B
- C ☒ AB
- D ☐ O

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**2023.** A blend of inherited and acquired characteristics shows

- A ☒ variation
- B ☐ inheritance
- C ☐ evolution
- D ☐ heredity

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**2019.** Which of the following actions supports conservation? To

- A ☒ protect endangered species
- B ☐ preserve trees for timber
- C ☐ permit hunting activities
- D ☐ provide income for the government

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**2015.** Which of the following natural resources cannot be conserved?

- A ☐ soil
- B ☐ water
- C ☐ wildlife
- D ☒ air

D ☒ air

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**2016.** The rational and prudent use of natural resources is known as

- A ☐ preservation
- B ☒ conservation
- C ☐ utilization
- D ☐ management

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**2017.** A pandemic is an outbreak of disease that

- A ☐ is confined to a town
- B ☒ is wide spread
- C ☐ will not spread
- D ☐ has limited spread

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**2018.** Overcrowding in a population does not result in

- A ☐ death
- B ☒ commensalism
- C ☐ competition
- D ☐ migration

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**2020.** Which of the following relationships does not involve two organisms?

- A ☐ Commensalism
- B ☒ Saprophytism
- C ☐ Symbiosis

- C ☐ Symbiosis  
D ☐ Parasitism

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**2021.** Special modification which enable an organism to survive in its habitat is known as.

- A ☒ adaptation  
B ☐ tolerance  
C ☐ mimicry  
D ☐ colouration

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**2022.** Food webs are complex because

- A ☒ the number of producers are large  
B ☐ many animals feed directly on producers  
C ☐ they include primary, secondary and tertiary consumers  
D ☐ some animals form part of several food chains

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**2023.** The direction wind is determined by

- A ☐ an anemometer  
B ☐ a Secchi disc  
C ☒ a wind vane  
D ☐ a barometer

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**2019.** Which of the following structures is not an organ of the digestive system?

- A ☐ Oesophagus  
B ☐ Pancreas  
C ☐ Stomach  
D ☒ Kidney

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2015.

The function of the villi in the alimentary canal is to

- A ☐ secrete gastric juice  
B ☐ Curdle milk  
C ☐ emulsify fat  
D ☒ increase the surface area for absorption

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C ☐ emulsify fat  
D ☒ increase the surface area for absorption

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**2020.** The association between two organisms in which one of the organisms gains and the other loses is referred to as

- A ☐ saprophytism  
B ☐ commensalism  
C ☐ mutualism  
D ☒ parasitism

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**2021.** In which of the plant tissues are guard cells located?

- A ☒ Epidemis  
B ☐ Mesophyll  
C ☐ Vascular bundles  
D ☐ Meristems

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**2022.** The best time to pluck the leaf for the experiment is

- A ☒ after being exposed to sunlight  
B ☐ three hours after sunset  
C ☐ before sunrise  
D ☐ six hours after sunset

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**2023.**

The following table shows the results of an experiment to determine the effect of light intensity on the rate of photosynthesis.



2023.

The best time to pluck the leaf for the experiment is

- A ☒ after being exposed to sunlight
- B ☐ three hours after sunset
- C ☐ before sunrise
- D ☐ six hours after sunset

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