



# BIOLOGY

## BOOKS - TRUEMAN'S BIOLOGY (ENGLISH)

### Fungi

#### Assertion And Reason

1. [A] : Endomycorrhiza of forest trees contribute to the efficient nutrient cycling in

tropical test ecosystems .

[R] : The fungi that form endomycorrhizal association with plants store nutrient ions and make them available to the host plants .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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2. [A] : Lichens are of considerable ecological importance as pioneers in colonization of rocky habitats by plants .

[R] : The lichens excrete organic acids which disintegrate rocks , thus forming soil or substrata in which other kinds of plants become established .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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3. [A] : Bordeaux mixture is an organic fungicide .

[R] : Bordeaux mixture contains copper , soda and water .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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4. [A] : The obligate parasites can live only on dead hosts .

[R] : There are some organisms which grow and live together but each one is always harmed by the other . This phenomenon is known as antagonism .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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5. [A] : Disease reduce the vitality of plants ,  
inhibit their development and cause different  
morphological and physiological aberrations .

[R] : The diseases result in the death of a plant

.

A. If both A and R are true and R is the  
correct explanation of A

B. If both A and R are true but R is not the  
correct explanation of A

C. If A is true and R is false



D. If both A and R are false

**Answer:**



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6. [A] : Lichens are composite organisms .

[R] : The fungal component in Basidiolichens belong to Basidiomycetes and algal component of association is either a green alga or myxophycean member .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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7. [A] : Candida is a false yeast .

[R] : It lacks ascus formation .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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8. [A] : Heterotrophs may be free living or symbiotic .

[R] : They form mutualistic, commensalistic or parasitic relationships.

A. (a) If both A and R are true and R is the correct explanation of A

B. (b) If both A and R are true but R is not the correct explanation of A

C. (c) If A is true and R is false

D. (d) If both A and R are false

**Answer:**



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9. [A] : Rusts and smuts are club fungi that parasitize cereal crops .

[R] : Some smuts enter seeds and exist inside the plant , becoming visible only near maturity .

A. (a) If both A and R are true and R is the correct explanation of A

B. (b) If both A and R are true but R is not the correct explanation of A

C. (c) If A is true and R is false

D. (d) If both A and R are false

**Answer:**



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**10. Assertion :** The fungi are widespread in distribution and they even live on inside other plants and animals.

**Reason :** Fungi are able to grow anywhere on land, water or on other organisms because they have a variety of pigments, including chlorophyll, carotenoids, fucoxanthin and phycoerythrin.

A. (a) If both A and R are true and R is the correct explanation of A

B. (b) If both A and R are true but R is not the correct explanation of A

C. (c) If A is true and R is false

D. (d) If both A and R are false

**Answer:**



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**11. [A] :** Symbiosis is also furnished by mycorrhiza .



[R] : In Mycorrhiza , symbiosis is established between alga and fungus .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**12. [A]** : Phytoalexins are formed as a result of mixing of auxins and gibberellins secreted in response to fungi .

**[R]** : Phytoalexins show antibiosis .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**13. [A] :** Zygosporangia produce spores within sporangia .

**[R] :** During sexual reproduction , Zygosporangia is formed before meiosis and production of spores .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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14. [A] : Club fungi reproduce sexually .

[R] : In club fungi , dikaryotic phase is prolonged and produces fruiting bodies where spores are produced in club shaped basidia .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**15. [A] :** The sterile portion of sporangium in Mucor is called columella .

**[R] :** Plants without seeds and flowers are called cryptogams .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**16. [A] :** Fungi are thallophyta .

**[R] :** Cell wall of fungi is made up of chitin .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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17. [A] : Fungi are either saprobes or parasitic .

[R] : Fungi possess haustorium .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



**18. [A] :** Aspergillus is used as bioindicator .

[R] : Aspergillus niger is sensitive to some trace elements .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**19. [A] :** Rhizopus contains two types of hyphae

.

[R] : The unbranched hyphae are sporangiophores .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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20. [A] : *Puccinia graminis* is autoecious .

[R] : It complete its life cycle on a single host species .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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21. [A] : Schizosaccharomyces is also called the fission yeast .

[R] : Schizosaccharomyces form the pseudomycelium .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**22. [A] :** Ascomycetes and basidiomycetes are septate fungi .

[R] : The hyphae are divided by few or many partitions or cross walls .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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23. [A] : Myxomycetes are not true fungi .

[R] : Myxomycetes possess characteristics of both plants and animals .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**24. [A] :** Aflatoxins are produced by fungus .

**[R] :** Aflatoxins are carcinogenic .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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25. [A] : Amanita is called toadstools .

[R] : Amanita is a poisonous fungi.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**26. [A] :** Yeast are used in baking industry .

**[R] :**  $CO_2$  produced during fermentation

causes bread dough to rise by thermal expansion .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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27. [A] : Foliose lichens show similarity with dicot leaves

[R] : They bear rhizines .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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