



## BIOLOGY

# BOOKS - TRUEMAN'S BIOLOGY (ENGLISH)

## Taxonomy(Systematics)

### Assertion And Reason

1. [A] : A phylogenetic system of classification is also a natural system .

[R] : In both types of classification, plants presumed to be related are grouped together

.

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] : Chromosome number and chromosome morphology are helpful in the elucidation of certain phylogenetic problems .

[R] : The external characters of seeds are of great value in separating closely related genera and 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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**3. [A] :** Cereals belong to family gramineae.

**[R] :** Gramineae consists of grasses and cereals

.

- 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] : Botanical nomenclature is independent of zoological nomenclature .

[R] : Tautonyms are treated as illegitimate in botanical nomenclature .

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] : Plants brought from the wild into cultivation retain original names .

[R] : According to Article 29 of the code publication of new names and descriptions are effective when the printed matter is distributed to general public or to at least ten botanical institutions with libraries accesible to botanists generally .

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 does not explain 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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6. [A] : Bentham and Hooker did not divide the seed plants into dicotyledons , Gymnosperms and Monocotyledons .

[R] : Hutchinson has recognised 201 families of angiosperms .

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] : Allopatric species are geographically isolated whereas sympatric species coexist .

[R] : Allopatric species can be accepted as separate species unless they pass the test of sympatry.

- 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] : To give a scientific name to a plant , there is ICBN .

[R] : They have articles , Paragraphs and recommendations to name 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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9. [A] : Natural & Phylogenetic systems of classification are similar .

[R] : The organisms related evolutionarily are similar in morphology too .

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. Species are static units in classification.

Reason. Species do not change with time.

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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**11. [A] :** Unicellular organisms are found in 3 kingdoms .

**[R] :** These kingdoms are prokaryotic .

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] :** Unicellular organisms occur in 3 kingdoms .

**[R] :** Multicellular organisms also occur in 3 kingdoms .

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.** Assertion. Species are static units in classification.

Reason. Species do not change with time.

- 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.** Assertion. Linnaeus is regarded the father of taxonomy.

Reason. He gave a scheme of classification which, with a few additions, is still used.

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.** Assertion. Conservative characters are more useful in classification.

Reason. These characters do not change during evolution. Therefore, their similarities show relationships among organisms.

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.** Assertion. Linnaeus insisted that the scientific names should be latinized.

Reason. This gives beauty to the names.

- 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. Assertion.** Hierarchical system of classification is useful in that it reduces the volume of description in a catalogue of animals and plants.

**Reason.** Characters given for a larger category (say a phylum) need not be repeated for smaller categories (say classes, orders, etc.)

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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**18. [A] :** Kingdom Archaea is a domain .

**[R] :** Domain is a category above kingdom .

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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