BIOLOGY

BOOKS - TRUEMAN BIOLOGY

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 phylgenetic 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] : Vegetative characters make their

description more difficult .

[R] : It is because the vegetative character

show greater plasticity as compared to floral features .

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:

4. [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:

5. [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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6. [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. 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:

7. [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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8. [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:

9. [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:

10. [A] : Natural & Phylogenetic systems of classification are similar .

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

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] : Species are static units in classification.

[R] : 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:

12. [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:

13. [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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14. 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:

15. 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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16. 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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17. 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:

18. Assertion. Hierarchial system of classification is useful in that it reduces the volume of description in a catatogue 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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19. [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: