NOVA SCOTIA ADVANCED BIOLOGY 11 · UNIT B

Biodiversity — Practice Test

Nova Scotia Advanced Biology 11 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A survey area holds 120 individuals of one species. Researchers sample 3 equal quadrats. The average per quadrat is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A transect counts 144 organisms across 12 equal sections. The average per section is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A collection of 48 specimens includes 12 of one genus. The specimens not in that genus number**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A cladogram groups organisms by**

- **A** size
- **B** shared derived traits
- **C** colour
- **D** habitat

Understand It with Pulse | Flag a mistake

5 **A collection grows from 60 species to 75 species. The increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A gymnosperm differs from an angiosperm because its seeds are**

- A always in flowers
- B made by spores
- C not enclosed in fruit
- D absent

Understand It with Pulse | Flag a mistake

7 **A herbarium holds 250 specimens and 50 are ferns. The non fern specimens number**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A lichen is a partnership between a fungus and a**

- A animal
- B bacterium only
- C moss only
- D photosynthetic partner

Understand It with Pulse | Flag a mistake

9 **A mollusc such as a clam typically has a**

- A soft body and often a shell
- B backbone
- C jointed exoskeleton
- D radial body

Understand It with Pulse | Flag a mistake

10 **A phylogenetic tree shows**

- A evolutionary relationships
- B food chains only
- C habitat sizes
- D population counts only

Understand It with Pulse | Flag a mistake

11 **A prokaryote that makes food by photosynthesis is a**

- A fungus
- B protozoan
- C cyanobacterium
- D alga only

Understand It with Pulse | Flag a mistake

12 **A seedless vascular plant group includes**

A mosses only

B conifers

C flowering plants

D ferns

Understand It with Pulse | Flag a mistake

13 **Which species concept defines a species by whether organisms can interbreed and produce fertile offspring?**

A The morphological concept

B The biological species concept

C The ecological concept

D The fossil concept

Understand It with Pulse | Flag a mistake

14 **A survey lists 18 genera and each genus has 2 species recorded. The species total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A taxon is a group at any level of**

A classification

B habitat

C food chain

D population

Understand It with Pulse | Flag a mistake

16 **An endemic species is found naturally in**

A one region only

B every continent

C zoos only

D oceans only

Understand It with Pulse | Flag a mistake

17 **Analogous structures arise by**

A common ancestry always

B mutation only

C convergent evolution

D migration only

Understand It with Pulse | Flag a mistake

18 **Archaea are often found in**

A extreme environments

B only in soil

C only in animals

D only in leaves

Understand It with Pulse | Flag a mistake

19 **Asexual reproduction produces offspring that are**

A always more diverse

B a new species

C genetically identical to the parent

D from two parents

Understand It with Pulse | Flag a mistake

20 **Binomial names are written with the genus**

- A all capitalised
- B capitalised and the species lower case
- C all lower case
- D underlined only in print

Understand It with Pulse | Flag a mistake

21 **A survey area holds 150 individuals of one species. Researchers sample 5 equal quadrats. The average per quadrat is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A transect counts 132 organisms across 11 equal sections. The average per section is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A collection of 72 specimens includes 18 of one genus. The specimens not in that genus number**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A survey area holds 200 individuals of one species. Researchers sample 4 equal quadrats. The average per quadrat is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A transect counts 96 organisms across 6 equal sections. The average per section is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 40
2. 12
3. 36
4. B
5. 15
6. C
7. 200
8. D
9. A
10. A
11. C
12. D
13. B
14. 36
15. A
16. A
17. C
18. A
19. C
20. B
21. 30
22. 12
23. 54
24. 50
25. 16

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