NOVA SCOTIA BIOLOGY 11 · FINAL EXAM · 50 QUESTIONS

Final Exam — Practice Test

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 plant makes 5 molecules of glucose in a test. Each glucose stores 10 units of energy in the model used here. The total energy stored, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A sample has 84 organisms divided into 7 equal groups. The number in each group is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A heart beats 80 times per minute. In 4 minutes the number of beats is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A field holds 600 units of plant energy. About 10 percent reaches herbivores. The energy, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A cell breaks down 2 glucose molecules. Each glucose yields 2 ATP in this simplified model. The total ATP made is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The broadest level of classification listed here is the**

A genus

B domain

C species

D family

Understand It with Pulse | Flag a mistake

7 **The heart chamber that pumps blood to the body is the**

A right atrium

B left ventricle

C left atrium

D right ventricle only

Understand It with Pulse | Flag a mistake

8 **A food web shows**

A one chain only

B a single species

C many connected food chains

D a habitat map only

Understand It with Pulse | Flag a mistake

9 **The main energy-carrying molecule made in a cell is**

A DNA

B glucose only

C ATP

D water

Understand It with Pulse | Flag a mistake

10 **A species is a group of organisms that can**

A interbreed and produce fertile offspring

B live anywhere

C eat any food

D never change

Understand It with Pulse | Flag a mistake

11 **Red blood cells carry oxygen using**

A hemoglobin

B plasma only

C platelets

D white cells

Understand It with Pulse | Flag a mistake

12 **Parasitism is a relationship where one species benefits and the other is**

A helped

B harmed

C unaffected

D eaten fully at once

Understand It with Pulse | Flag a mistake

13 **Osmosis is the diffusion of**

A salt across a solid wall

B water across a membrane

C glucose through air

D oxygen through rock

Understand It with Pulse | Flag a mistake

14 **Plants are different from animals because plants can**

A move quickly

B eat other organisms

C live without water

D make their own food by photosynthesis

Understand It with Pulse | Flag a mistake

15 **The excretory organ that filters blood and makes urine is the**

- A liver
- B lung
- C skin only
- D kidney

Understand It with Pulse | Flag a mistake

16 **Succession is the gradual change in a community**

- A over time
- B in one second
- C only in water
- D only after fire

Understand It with Pulse | Flag a mistake

17 **The cell membrane is best described as**

A fully open

B fully closed

C selectively permeable

D made of protein only

Understand It with Pulse | Flag a mistake

18 **Vertebrates are animals that have a**

A shell only

B six legs

C backbone

D chloroplast

Understand It with Pulse | Flag a mistake

19 **The liver helps digestion by producing**

A insulin only

B urine

C mucus only

D bile

Understand It with Pulse | Flag a mistake

20 **Energy in a food pyramid decreases at higher levels mainly because energy is**

A lost as heat

B created by carnivores

C stored forever

D reflected only

Understand It with Pulse | Flag a mistake

21 **Active transport moves substances**

A down a gradient with no energy

B only in dead cells

C only as water

D against a concentration gradient using energy

Understand It with Pulse | Flag a mistake

22 **Insects, spiders and crabs belong to the group called**

A molluscs

B arthropods

C annelids

D cnidarians

Understand It with Pulse | Flag a mistake

23 **A valve in the heart prevents blood from**

A leaving the heart

B entering the lungs

C flowing backwards

D carrying oxygen

Understand It with Pulse | Flag a mistake

24 **A keystone species has an effect that is**

A zero

B only on plants

C only in winter

D large compared with its abundance

Understand It with Pulse | Flag a mistake

25 **Enzyme activity is highest at the enzyme optimum**

A pressure only

B light only

C mass only

D temperature and pH

Understand It with Pulse | Flag a mistake

26 **The correct order from broad to specific is**

A domain, kingdom, phylum, class

B species, genus, family, order

C class, phylum, kingdom, domain

D genus, domain, kingdom, species

Understand It with Pulse | Flag a mistake

27 **Veins carry blood**

A toward the heart

B away from the heart only

C only to the brain

D only in arteries

Understand It with Pulse | Flag a mistake

28 **Commensalism is a relationship where one species benefits and the other is**

A unaffected

B harmed

C helped equally

D eaten

Understand It with Pulse | Flag a mistake

29 **Ribosomes are the site of**

A photosynthesis

B protein synthesis

C energy storage

D water storage

Understand It with Pulse | Flag a mistake

30 **A field study counts 56 birds in 7 equal plots. The average per plot is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A resting heart rate is 65 beats per minute. In 4 minutes the beats total**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A field holds 900 units of plant energy. About 10 percent reaches herbivores. The energy, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Facilitated diffusion uses**

A cell walls only

B chlorophyll

C ATP always

D membrane proteins

Understand It with Pulse | Flag a mistake

34 **A food producer in an ecosystem is a**

A herbivore

B carnivore

C decomposer only

D plant

Understand It with Pulse | Flag a mistake

35 **A blood sample has 150 red cells counted in a field and 50 white cells. The difference is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **Herbivores hold 300 units of energy. About 10 percent passes to carnivores. The energy passed, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **Chlorophyll is the pigment that**

A carries oxygen in blood

B digests food

C absorbs light for photosynthesis

D builds cell walls

Understand It with Pulse | Flag a mistake

38 **An endangered species is one at risk of**

A extinction

B migration

C hibernation

D domestication

Understand It with Pulse | Flag a mistake

39 **A sample has 200 blood cells and 150 are red cells. The non-red cells number**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A lake has 45 fish and 15 leave. The fish remaining are**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A plant makes 4 molecules of glucose in a test. Each glucose stores 15 units of energy in the model used here. The total energy stored, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **Classification today also uses evidence from**

A colour only

B DNA

C size only

D habitat only

Understand It with Pulse | Flag a mistake

43 **A resting heart rate is 85 beats per minute. In 3 minutes the beats total**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A field holds 2500 units of plant energy. About 10 percent reaches herbivores. The energy, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **A leaf sample produces 12 units of oxygen per hour. Over 3 hours the oxygen produced, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A virus differs from a cell because a virus**

A has a nucleus

B makes its own food

C is not made of cells

D is a kingdom

Understand It with Pulse | Flag a mistake

47 **A meal provides 600 units of energy and digestion uses 60 units. The net energy, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A population of 80 rabbits doubles once. The new population is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A plant makes 9 molecules of glucose in a test. Each glucose stores 4 units of energy in the model used here. The total energy stored, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **A key starts with 12 possible species and eliminates 5. The species remaining are**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 50
2. 12
3. 320
4. 60
5. 4
6. B
7. B
8. C
9. C
10. A
11. A
12. B
13. B
14. D
15. D
16. A
17. C
18. C
19. D
20. A
21. D
22. B
23. C
24. D
25. D
26. A
27. A
28. A
29. B
30. 8
31. 260
32. 90
33. D
34. D
35. 100
36. 30
37. C
38. A
39. 50
40. 30
41. 60
42. B
43. 255
44. 250
45. 36
46. C
47. 540
48. 160
49. 36
50. 7

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