Final Exam — Practice Test

Newfoundland and Labrador Biology 3201 • 50 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 **Glucagon acts on the liver to**

- A lower blood glucose
- B increase urine output
- C raise blood glucose
- D slow the heart

Understand It with Pulse | Flag a mistake

2 **Implantation of the embryo normally occurs in the**

A uterus

B ovary

C fallopian tube

D cervix

Understand It with Pulse | Flag a mistake

3 **The genetic makeup of an organism is called its**

A genotype

B phenotype

C chromosome

D mutation

Understand It with Pulse | Flag a mistake

4 **Variation within a population is mainly produced by mutation and**

A fossil formation

B migration alone

C sexual reproduction

D extinction

Understand It with Pulse | Flag a mistake

5 **Aldosterone increases the reabsorption of which ion by the kidney?**

A sodium

B calcium

C potassium in excess

D hydrogen only

Understand It with Pulse | Flag a mistake

6 **Progesterone after ovulation mainly acts to**

A maintain the uterine lining

B trigger menstruation at once

C produce sperm

D stop follicle growth forever

Understand It with Pulse | Flag a mistake

7 **A recessive trait is expressed only when an organism has**

A one dominant allele

B two recessive alleles

C one recessive allele

D no alleles

Understand It with Pulse | Flag a mistake

8 **Reproductive isolation means members of different species**

A never meet

B do not produce fertile offspring together

C have identical genes

D live in the same habitat always

Understand It with Pulse | Flag a mistake

9 **In a neuron, the axon carries a nerve impulse**

A toward the cell body

B across the synapse only

C into the nucleus

D away from the cell body

Understand It with Pulse | Flag a mistake

10 **Meiosis produces gametes with what chromosome number compared with the parent cell?**

A double the number

B the same number

C four times the number

D half the number

Understand It with Pulse | Flag a mistake

11 **Hemophilia is an example of a trait carried mainly on the**

A X chromosome

B Y chromosome

C chromosome 21 only

D mitochondrial DNA only

Understand It with Pulse | Flag a mistake

12 **Gene flow between populations tends to**

A reduce genetic differences

B increase genetic differences

C stop evolution

D cause extinction at once

Understand It with Pulse | Flag a mistake

13 **In the kidney, filtration of blood plasma first occurs in the**

A loop of Henle

B collecting duct

C glomerulus

D ureter

Understand It with Pulse | Flag a mistake

14 **The umbilical cord connects the fetus to the**

A ovary

B fallopian tube

C placenta

D cervix

Understand It with Pulse | Flag a mistake

15 **The shape of a DNA molecule is best described as a**

A single helix

B flat sheet

C triple helix

D double helix

Understand It with Pulse | Flag a mistake

16 **The classification level that includes the most species is the**

A species

B genus

C family

D kingdom

Understand It with Pulse | Flag a mistake

17 **Adrenaline prepares the body for fight or flight by increasing**

A insulin release

B urine production

C heart rate

D digestive activity

Understand It with Pulse | Flag a mistake

18 **In vitro fertilization differs from natural fertilization in that fertilization occurs**

A inside the ovary

B outside the body in a laboratory

C without any egg cell

D without any sperm cell

Understand It with Pulse | Flag a mistake

19 **In a cross of two heterozygous parents, 400 offspring are expected. The expected number showing the recessive trait is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a population of 1000, the frequency of the recessive allele² is 0.16. The expected number with the recessive phenotype is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Blood glucose falls from 90 units to 60 units. The fall in blood glucose in units is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **Human gestation lasts 40 weeks. The gestation length in days is**

ANSWER

Understand It with Pulse | Flag a mistake

23 **A DNA sample has 1000 bases and 20 percent are guanine. The number of cytosine bases is**

ANSWER

Understand It with Pulse | Flag a mistake

24 **A population grows from 200 to 250 individuals. The increase in individuals is**

ANSWER

Understand It with Pulse | Flag a mistake

25 **Urine output falls from 1500 millilitres to 900 millilitres. The decrease in urine output in millilitres is**

ANSWER

Understand It with Pulse | Flag a mistake

26 **A pregnancy lasts 280 days. The number of complete 7 day weeks in 280 days is**

ANSWER

Understand It with Pulse | Flag a mistake

27 **A dihybrid cross gives a 9 to 3 to 3 to 1 ratio. In 1600 offspring, the expected number showing both dominant traits is**

ANSWER

Understand It with Pulse | Flag a mistake

28 **In a sample of 500 beetles, 400 are dark and 100 are light. The number of dark beetles per 100 beetles is**

ANSWER

Understand It with Pulse | Flag a mistake

29 **Sodium intake is 4000 milligrams and 3200 milligrams are excreted. The sodium retained in milligrams is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **An embryo has 8 cells after 3 divisions. After one more division, the number of cells is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **Mendel studied inheritance using which plant?**

A pea plants

B corn plants

C rose plants

D wheat plants

Understand It with Pulse | Flag a mistake

32 **Artificial selection differs from natural selection because humans choose which organisms**

A reproduce

B die

C migrate

D fossilize

Understand It with Pulse | Flag a mistake

33 **The medulla of the brain stem controls involuntary actions such as**

A speaking

B breathing

C writing

D seeing colour

Understand It with Pulse | Flag a mistake

34 **Eggs are produced in the**

A uterus

B ovaries

C fallopian tubes

D placenta

Understand It with Pulse | Flag a mistake

35 **A mutation is a change in the**

A cell membrane only

B ribosome number only

C chromosome shape only

D DNA sequence

Understand It with Pulse | Flag a mistake

36 **Adaptive radiation is the evolution of many species from a common ancestor into**

A one niche

B extinction

C a single species

D different niches

Understand It with Pulse | Flag a mistake

37 **Calcitonin acts to**

A lower blood calcium

B raise blood calcium

C raise blood glucose

D increase heart rate

Understand It with Pulse | Flag a mistake

38 **A blastocyst is an early stage consisting of a**

- A hollow ball of cells
- B single sperm cell
- C fully formed fetus
- D placenta only

Understand It with Pulse | Flag a mistake

39 **Down syndrome is usually caused by an extra copy of chromosome**

- A 18
- B 13
- C 21
- D 23

Understand It with Pulse | Flag a mistake

40 **Humans belong to the order**

A Carnivora

B Rodentia

C Primates

D Cetacea

Understand It with Pulse | Flag a mistake

41 **Vasodilation of skin blood vessels helps the body lose heat by**

A decreasing blood flow near the skin

B closing sweat glands

C raising metabolic rate

D increasing blood flow near the skin

Understand It with Pulse | Flag a mistake

42 **During fetal development, the heart begins to beat during the**

- A final week before birth
- B second year of life
- C puberty
- D first weeks after conception

Understand It with Pulse | Flag a mistake

43 **A DNA sample has 2000 bases and 25 percent are adenine. The number of adenine bases is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **In a population of 2000, the recessive phenotype frequency is 0.25. The expected number with the recessive phenotype is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **Water intake is 2000 millilitres and output is 1700 millilitres. The net gain in millilitres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **Gestation is 280 days. After 140 days, the days remaining are**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A population of 800 has 1 in 4 carriers. The number of carriers is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A count falls from 500 to 450. The decrease is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A person sweats 500 millilitres per hour for 4 hours. The total loss in millilitres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **A woman ovulates once per 28 day cycle. In 6 cycles, the number of eggs released is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**18.**	B	**35.**	D
2.	A	**19.**	100	**36.**	D
3.	A	**20.**	160	**37.**	A
4.	C	**21.**	30	**38.**	A
5.	A	**22.**	280	**39.**	C
6.	A	**23.**	200	**40.**	C
7.	B	**24.**	50	**41.**	D
8.	B	**25.**	600	**42.**	D
9.	D	**26.**	40	**43.**	500
10.	D	**27.**	900	**44.**	500
11.	A	**28.**	80	**45.**	300
12.	A	**29.**	800	**46.**	140
13.	C	**30.**	16	**47.**	200
14.	C	**31.**	A	**48.**	50
15.	D	**32.**	A	**49.**	2000
16.	D	**33.**	B	**50.**	6
17.	C	**34.**	B		

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