PRINCE EDWARD ISLAND BIOLOGY 12 · FINAL EXAM

Final Exam — Practice Test

Prince Edward Island Biology 12 • 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 **A cell in meiosis produces 4 gametes. Starting from 3 parent cells, the gamete count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A litter has 8 offspring and 3 are male. The number that are female is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In DNA, if adenine is 30 percent of bases, thymine is this percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a population, the frequency of allele A is 0.8. Under Hardy Weinberg assumptions, the frequency of allele a as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A survey finds 5 mammals, 10 birds and 15 insects. The total species count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A human skin cell has 46 chromosomes. A human egg cell has this many chromosomes**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Testosterone is produced mainly in the**

A pituitary gland

B testes

C ovaries

D uterus

Understand It with Pulse | Flag a mistake

8 **In RNA, uracil replaces**

A guanine

B cytosine

C thymine

D adenine

Understand It with Pulse | Flag a mistake

9

Stabilizing selection favours

A both extremes

B new mutations

C larger individuals only

D average phenotypes over extremes

Understand It with Pulse | Flag a mistake

10

Binomial nomenclature gives each species a

A kingdom and phylum name

B genus and species name

C family and order name

D common name only

Understand It with Pulse | Flag a mistake

11 **Cytokinesis is the division of the**

A chromosomes only

B cell membrane only

C cytoplasm

D nucleus only

Understand It with Pulse | Flag a mistake

12 **Sexual reproduction increases variation through**

A cloning only

B fertilization and meiosis

C mitosis only

D budding only

Understand It with Pulse | Flag a mistake

13 **Translation produces**

A a polypeptide at a ribosome

B DNA at a ribosome

C messenger RNA in the nucleus

D a chromosome in the cytoplasm

Understand It with Pulse | Flag a mistake

14 **The founder effect occurs when a new population is started by a**

A large migration

B mutation

C fossil layer

D small number of individuals

Understand It with Pulse | Flag a mistake

15 **An invasive species is a non native species that**

A is always a predator

B harms its new ecosystem

C increases native diversity

D never reproduces

Understand It with Pulse | Flag a mistake

16 **Meiosis produces cells that are**

A diploid

B identical to the parent

C always identical to each other

D haploid

Understand It with Pulse | Flag a mistake

17 **If ovulation occurs on day 14 of a 28 day cycle, the days remaining in the cycle are**

ANSWER

Understand It with Pulse | Flag a mistake

18 **A recessive allele is expressed only when**

A two copies are present

B one copy is present

C it is dominant

D it is on a sex chromosome

Understand It with Pulse | Flag a mistake

19 **The fossil record provides evidence of**

A current populations only

B DNA sequences only

C future evolution

D change over geological time

Understand It with Pulse | Flag a mistake

20 **A wetland has 120 bird species. If 30 percent migrate, the migrating count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Starting from 6 parent cells, meiosis gives this many gametes**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A litter of 10 puppies has 6 females. The percent female is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **If cytosine is 15 percent of DNA bases, guanine is this percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An area has 800 species in total and 200 are birds. The percent that are birds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A seed bank stores 400 varieties. If 75 percent germinate in a test, the germinating count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A species has a diploid number of 22. Its haploid number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A plant produces 90 seeds and 30 percent germinate. The seedling count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **If guanine is 30 percent of DNA bases, adenine plus thymine together are this percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A fossil sample starts with 80 grams of an isotope. After 4 half lives the mass in grams is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A survey finds 12 mammals, 18 birds and 20 insects. The total species count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A cell divides by mitosis 2 times in succession starting from 3 cell or cells. The final cell count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A litter has 12 offspring and 7 are female. The number that are male is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **In DNA, if adenine is 25 percent of bases, thymine is this percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **In a population, the frequency of allele A is 0.9. Under Hardy Weinberg assumptions, the frequency of allele a as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A survey finds 4 mammals, 6 birds and 10 insects. The total species count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A body cell of a species has 36 chromosomes. A gamete of that species has this many chromosomes**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **External fertilization is common in many**

- A reptiles only
- B aquatic animals
- C mammals
- D birds

Understand It with Pulse | Flag a mistake

38 **Codominance means both alleles are**

- A fully expressed in the heterozygote
- B hidden in the heterozygote
- C recessive
- D on different chromosomes

Understand It with Pulse | Flag a mistake

39 **Punctuated equilibrium proposes long stability interrupted by**

A slow steady change

B extinction only

C migration

D rapid change

Understand It with Pulse | Flag a mistake

40 **A species at risk list is used to**

A prioritize protection

B encourage hunting

C ignore declines

D count only mammals

Understand It with Pulse | Flag a mistake

41 **DNA replication occurs during**

A telophase only

B cytokinesis only

C interphase

D prophase only

Understand It with Pulse | Flag a mistake

42 **A species produces 6 eggs per clutch and has 4 clutches. The total egg count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A messenger RNA has 60 nucleotides. The number of codons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A species has a generation time of 10 years. The generations in 150 years number**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **If 160 species are surveyed and 50 percent are insects, the insect count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A body cell of a species has 24 chromosomes. A gamete of that species has this many chromosomes**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A frog lays 400 eggs and 25 percent survive to tadpoles. The tadpole count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A messenger RNA has 210 nucleotides. The number of codons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A fossil sample starts with 320 grams of an isotope. After 3 half lives the mass in grams is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **A survey finds 8 mammals, 12 birds and 10 insects. The total species count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	12	**18.**	A	**35.**	20
2.	5	**19.**	D	**36.**	18
3.	30	**20.**	36	**37.**	B
4.	0.2	**21.**	24	**38.**	A
5.	30	**22.**	60	**39.**	D
6.	23	**23.**	15	**40.**	A
7.	B	**24.**	25	**41.**	C
8.	C	**25.**	300	**42.**	24
9.	D	**26.**	11	**43.**	20
10.	B	**27.**	27	**44.**	15
11.	C	**28.**	40	**45.**	80
12.	B	**29.**	5	**46.**	12
13.	A	**30.**	50	**47.**	100
14.	D	**31.**	12	**48.**	70
15.	B	**32.**	5	**49.**	40
16.	D	**33.**	25	**50.**	30
17.	14	**34.**	0.1		

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