NOVA SCOTIA ADVANCED BIOLOGY 12 · UNIT B

Reproduction and Development — Practice Test

Nova Scotia Advanced Biology 12 • 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 species has 20 chromosomes in each body cell. The gamete chromosome number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A species has 24 chromosomes in each body cell. The gamete chromosome number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A species has 16 chromosomes in each body cell. The gamete chromosome number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **4 cells each divide by mitosis 3 times. The total number of cells produced is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **2 cells each divide by mitosis 4 times. The total number of cells produced is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **5 cells each divide by mitosis 2 times. The total number of cells produced is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **A menstrual cycle lasts 29 days. With ovulation 14 days before the end of the cycle, the ovulation day is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **A menstrual cycle lasts 27 days. With ovulation 14 days before the end of the cycle, the ovulation day is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A menstrual cycle lasts 31 days. With ovulation 14 days before the end of the cycle, the ovulation day is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An egg cell has 10 chromosomes and the sperm cell has 10 chromosomes. The zygote chromosome number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An egg cell has 12 chromosomes and the sperm cell has 12 chromosomes. The zygote chromosome number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **An egg cell has 30 chromosomes and the sperm cell has 30 chromosomes. The zygote chromosome number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A person releases 1 egg per menstrual cycle and has about 13 cycles per year. In 5 years the number of eggs released is about**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A person releases 1 egg per menstrual cycle and has about 13 cycles per year. In 4 years the number of eggs released is about**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A person releases 1 egg per menstrual cycle and has about 13 cycles per year. In 10 years the number of eggs released is about**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A pregnancy lasts 36 weeks. The length in days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A pregnancy lasts 44 weeks. The length in days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A pregnancy lasts 35 weeks. The length in days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Nondisjunction during meiosis can produce gametes with**

A an extra chromosome or a missing chromosome

B no DNA

C double the DNA only

D identical chromosomes only

Understand It with Pulse | Flag a mistake

20 **In spermatogenesis one primary spermatocyte produces**

A one sperm cell

B four sperm cells

C two sperm cells

D eight sperm cells

Understand It with Pulse | Flag a mistake

21 **In oogenesis the unequal divisions produce one egg and**

A four eggs

B sperm cells

C polar bodies

D identical eggs

Understand It with Pulse | Flag a mistake

22 **Human chorionic gonadotropin is important in early pregnancy because it**

A causes ovulation

B stops fertilisation

C forms the placenta alone

D maintains the corpus luteum

Understand It with Pulse | Flag a mistake

23 **The corpus luteum produces progesterone until the placenta**

- A takes over hormone production
- B stops growing
- C releases the egg
- D forms sperm

Understand It with Pulse | Flag a mistake

24 **Identical twins arise from**

- A two eggs fertilised
- B one zygote splitting early
- C two sperm entering one egg
- D fertilisation twice

Understand It with Pulse | Flag a mistake

25 **During gastrulation the embryo forms**

A the placenta only

B four limbs

C three germ layers

D the nervous system only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	10	**10.**	20	**19.**	A
2.	12	**11.**	24	**20.**	B
3.	8	**12.**	60	**21.**	C
4.	32	**13.**	65	**22.**	D
5.	32	**14.**	52	**23.**	A
6.	20	**15.**	130	**24.**	B
7.	15	**16.**	252	**25.**	C
8.	13	**17.**	308		
9.	17	**18.**	245		

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