

PBS-NOVA: Life's Greatest Miracle Movie Worksheet

Please answer the following questions as you learn about the "miracle of life"

1. How many human babies are born each day?

365,000

2. What is DNA "very good" at?

Making copies of itself

3. What risk is there for a species that only reproduces by cloning?

If humans were all clones, they would all have the exact same immune system, and could be wiped out by one successful parasite

4. How does the DNA of sexually produced offspring compare to the DNA of the parents?

Each individual provides some DNA and will create variety to the DNA making an individual unlike any other

5. How many sperm are produced by the average human male?

1000/per second or over 100 million everyday

6. What process is used to make sperm cells and egg cells?

Meiosis

7. What happens to the genes when two chromosomes "embrace"?

Genes are exchanged between partners > the cell divides twice each pair pulled apart > the final result is a sperm or egg cell holding 23 chromosomes

8. What is the advantage of diversity within a species?

Better odds of survival

9. When does a human female produce her eggs?

When they are a fetus in the womb

10. What danger confronts sperm in the vagina?

The vagina is acidic so they must escape or die. Cervical mucus blocks the passageway top the uterus

11. What does the sperm need in order to be allowed through the egg's coat?

Protein of the sperm must align with the proteins in the egg's surface precisely. Once this happens the egg sheds its outer coating allowing enzymes to dissolve a hole for the sperm to enter the egg cell.

12. How much time passes between fertilization and the first division of the zygote?

3 weeks

13. After fertilization, how long does it take for the blastocyst to arrive in the uterus?

6 days

14. What risk does the blastocyst face after it attaches to the uterus?

Mother's immune system: white blood cells would swarm in to destroy the blastocyst

15. True or False: All cells have the same genes.

False

16. What does a gene do when it has been turned on?

It tells the cell to construct a particular protein

17. Where specifically does the baby get its nutrients from?

Placenta

18. Does the blood of the mother and the baby ever mix?

No

19. How old is the fetus when it gains the ability to hear sound?

5 Months

20. What is the main job of the fetus during the last trimester?

To Grow

Miracle Of Life Question Guide Answer Key

Zhe Xu



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