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## CBSE 10th Heredity And Evolution Unsolved Paper

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# CBSE 10<sup>th</sup> Heredity And Evolution

## Unsolved Paper

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### SECTION - A

**Q.1. Two pea plants one with round green seeds (RRyy) and another with wrinkled yellow (rrYY) seeds produce progeny having round, yellow (RrYy) seeds. When plants are selfed, the progeny will have the following combination of characters**

- (a) 15:1
- (b) 9:3:3:1
- (c) 9:3:4
- (d) 12:3:1

**Q.2. How many autosome are present in human sperm?**

- (a) 32
- (b) 30
- (c) 22
- (d) 23

**Q.3. Two pink colored flowers on crossing results in 1red, 2pink and 1white flower progeny. The nature of the cross is-**

- (a) cross fertilization
- (b) self-pollination
- (c) double fertilization
- (d) no fertilization

**Q.4. A basket of vegetable contains carrot, potato, radish, and tomato. Which of them represent the correct homologous structure.**

- (a) carrot and potato
- (b) carrot and tomato
- (c) radish and carrot
- (d) radish and potato

**Q.5. What is the scientific name of human being?**

**Q.6. Who is called father of genetics?**

**Q.7. Genetics is the study of-**

- (a) resemblances amongst individuals
- (b) heredity and environment
- (c) differences amongst individuals
- (d) Heredity and variations.

**Q.8. Wing of a bird and wing of an insect are**

- (a) Homologous organs
- (b) analogous organs
- (c) vestigial organ
- (d) both (a) and (b)

**Q.9 Mendel crossed a pure white recessive pea plant with a dominant pure red flowered plant. What will be the first generation of hybrids.?**

**Q.10. Name 2 organisms in which sex determination is regulated by environmental factors.**

## SECTION – B

**Q.11. How does the creation of variations in a species promote survival?**

**Q.12. How evolution and classification are linked?**

**Q.13. How do Mendel's experiments show that traits are inherited independently ?**

**Q.14. How many contrasting characters did Mendel see in garden pea? Give any two of them.**

**Q.15. What are variations? Give their types.**



**Q.16. Why are the small numbers of surviving tigers a cause of worry from the point of view of genetics ?**

**Q.17. Why did Mendel choose pea plant for his experimentation?**

#### SECTION – C

**Q.18. How is the equal genetic contribution of male and female parents ensured in the progeny?**

**Q.19. What are the different approaches to determine evolutionary history of man?**

**Q.20. What are homologous and analogous organ? Explain with the help of example.**

**Q.21. Only variations that confer an advantage to an individual organism will survive in a population. Do you agree with this statement ? Why or why not ?**

**Q.22. What are fossils ? What do they tell us about the process of evolution ?**

**Q.23. Describe how the sex of the offspring is determined in the zygote in human beings?**

**Q.24. What evidence do we have for the origin of life from inanimate matter?**

#### SECTION – D

**Q.25 Give the basic features of the mechanism of inheritance.**

**Q.26. (i) Who provided the evidence of DNA as genetic material?**

**(ii) Why DNA is called polynucleotide?**

**(iii) List three important features of double helical model of DNA.**

**Q.27. What evidence do we have for the origin of life from inanimate matter?**

**Q.28. Outline a project which aims to find the dominant coat colour in dogs.**

**Q.29. Explain how sexual reproduction gives rise to more viable variations than asexual reproduction. How does this affect the evolution of those organisms that reproduce sexually ?**

**Q.30. How is the equal genetic contribution of male and female parents ensured in the progeny?**



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