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SSLC – Daily Practice Papers

HEREDITY & EVOLUTION

SCIENCE PRACTICE PAPER 05

I. Choose the Most Appropriate Answers

- 1. Independent inheritance of two separate traits, shape and colour of seeds in Mendel's cross on pea plants resulted in a observable ratio of a. 3:1 c. 1:1
 - b. 9:3:3:1
- 2. Two pink coloured flowers on crossing resulted in 1 red, 2 pink and 1 white flower progeny. The nature of the cross will be
 - a. Double fertilisation
 - b. Self pollination

c. Cross fertilisation

c. Wrinkled and green d. Wrinkled and yellow

- d. No fertilisation 3. If a round, green seeded pea plant (RR yy) is crossed with wrinkled, yellow seeded pea plant (rr YY), the seeds produced in F1 generation are
 - a. Round and yellow
 - b. Round and green

II. Answer the following questions

- 4. What is a gene?
- 5. Define variation in relation to a species

III. Answer the Following questions

- 6. Describe briefly four ways in which individuals with a particular trait may increase in a population. ° e
- 7. What are fossils? What do they tell us about the process of evolution?
- 8. The human beings who look so different from each other in terms of colour, size and looks are said to belong to the same species. Why?
- 9. Define the terms: (i) Speciation (ii) Natural selection

IV. Answer the following questions

10. Distinguish between acquired and inherited traits by giving one example of each. Why are traits acquired during the lifetime of an individual not inherited?

V. Answer the following questions

11. State the meaning of inherited traits and acquired traits. Which of the two is not passed on to the next generation? Explain with the help of an example

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 $3 \times 1 = 3$

$4 \times 2 = 8$

 $2 \times 1 = 2$

$1 \times 4 = 4$

 $1 \times 3 = 3$



d. 9:4:2:1

Total Marks : 20