NEW STANDARD ACADEMY

SEMRI KOTHI SUPER MARKET, RAEBARELI CLASS 11 (BIOLOGY) DPP:-3

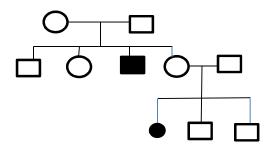
- 1. During which phase of cell cycle does the histone Synthesized?
- 2. Telophase is the reverse of prophase? Justify it.
- 3. What is difference between anaphase of mitosis and anaphase I of meiosi I
- 4. Define (a) synaptonemal complex (B) Bivalent
- 5. What are chiasmata? Give its significance?
- 6. How is cytokinesis different from in plant and animal cell.
- 7. Which is longest and shortest phase in interphase
- 8. Which is longest and shortest phase in M phase of mitosis
- 9. In which phases of mitosis determine the mosphology ,no of chromosome and shape of chromosome
- 10. How many meiotic divisions are required to produce 100 seeds.

NEW STANDARD ACADEMY

SEMRI KOTHI SUPER MARKET, RAEBARELI CLASS 12 (BIOLOGY) DPP:-3

- 1. Explain the following terms with example:
 - a) Co-dominance

- b) Incomplete dominance
- 2. What is point mutation? Give one example.
- 3. Mention any two autosomal genetic disorders with their symptoms.
- 4. In a Mendelian monohybrid Cross, the F₂ generation shows identical genotypic and phenotypic ratios. What does it tell us about the nature of alleles involved? Justify your answer.
- 5. Discuss why drosophila has been used extensively for genetical studies.
- 6. Study the given pedigree chart and answer the questions that follow:



- a) Is the trait recessive or dominant?
- b) Is the trait sex- linked or autosomal?
- c) Give the genotypes of the parents in generation I and of their third and fourth child in generation II
- 7. Define an euploidy. How is different from polyploidy? Describe the individuals having following chromosomal abnormalities.
- 8. A garden pea plant bearing terminal, violet flowers, when crossed with another pea plant bearing axial, violet flower, produced axial, violet flower and axial, white flowers in the ratio of 3:1. Work out the cross showing the genotypes of the parent pea plants and their progeny.
- 9. Explain mendel's law of indendent assortment by taking a suitable example.
- 10. Give an example of an organism that exhibits haplo- diploidy sexdetermination system.