



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

BIOLOGY




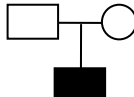
**DPP**

DAILY PRACTICE PROBLEMS

**DPP NO. 2**

**BOTANY : PRINCIPLE OF INHERITANCE AND VARIATIONS**

**DPP No. : 2**

- Broad palm with single palm crease is visible in a person suffering from-
  - (1) Turner's syndrome
  - (2) Klinefelter's syndrome
  - (3) Thalassemia
  - (4) Down's syndrome
- Which of the following statements are correct about Klinefelter's Syndrome?
  - A. This disorder was first described by Langdon Down (1866).
  - B. Such an individual has overall masculine development. However, the feminine development is also expressed.
  - C. The affected individual is short statured.
  - D. Physical, psychomotor and mental development is retarded.
  - E. Such individuals are sterile. Choose the correct answer from the options given below:
    - (1) C and D only
    - (2) B and E only
    - (3) A and E only
    - (4) A and B only
- The phenomenon of pleiotropism refers to
  - (1) presence of two alleles, each of the two genes controlling a single trait
  - (2) a single gene affecting multiple phenotypic expression.
  - (3) more than two genes affecting a single character
  - (4) presence of several alleles of a single gene controlling a single crossover.
- Frequency of recombination between gene pairs on same chromosome as a measure of the distance between genes to map their position on chromosome, was used for the first time by
  - (1) Sutton and Boveri
  - (2) Alfred sturtevant
  - (3) Henking
  - (4) Thomas Hunt Morgan
- Select the incorrect match regarding the symbols used in Pedigree analysis:
  - (1)  -Sex unspecified
  - (2)  - Affected individual
  - (3)  -Consanguineous mating
  - (4)  Parent with male child affected with disease

6. Given below are two statements :
- Statement I : Sickle cell anaemia and Haemophilia are autosomal dominant traits.  
Statement II : Sickle cell anaemia and Haemophilia are disorders of the blood.  
In the light of the above statements, choose the correct answer from the options given below :
- (1) Both Statement I and Statement II are correct  
(2) Both Statement I and Statement II are incorrect  
(3) Statement I is correct but Statement II is incorrect  
(4) Statement I is incorrect but Statement II is Correct
7. If a colour blind female marries a man whose mother was also colour blind, what are the chances of her progeny having colour blindness?  
(1) 75%                      (2) 100%                      (3) 25%                      (4) 50%
8. Which of the following occurs due to the presence of autosome linked dominant trait?  
(1) Haemophilia                      (2) Thalessemia  
(3) Sickle cell anaemia                      (4) Myotonic dystrophy
9. Which of the following is incorrect combination?  
(1) XO-type sex determination—Grasshopper  
(2) XY-type sex determination—Drosophila  
(3) ZW-type sex determination—Pavo  
(4) X-body—Morgan
10. Chromosomal theory of inheritance was proposed by  
(1) Sutton and Boveri                      (2) Bateson and Punnett  
(3) T.H. Morgan                      (4) Watson and Crick