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CSIR NET Life Sciences December 2008 Paper (Part 10 of 14)

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1. A plant with genotype $r + h + / r - h -$ was test crossed. Out of total 280 progeny 260 are $r + h + / r - h -$ and $r - h - / r - h -$. The recombination frequency will be
 - a. 9
 - b. 82.46%
 - c. 7.2
 - d. 3.6
2. Genetic mapping reveals that distance between two genes 'A' and 'B' is 10 cM. What is chance of getting Aabb progeny if AaBb is test crossed?
 - a. 5%
 - b. 10%
 - c. 45%
 - d. 90%
3. The regulators of circadian rhythms in plants is
 - a. Phycobillins
 - b. Phytochromes
 - c. Phototropins
 - d. Cryotophores
4. The following pedigree represents the inheritance of a rare disorder. Based on the above pedigree, what is the most likely mode of inheritance?
 - a. Autosomal dominant
 - b. X-linked recessive
 - c. X-linked dominant
 - d. Autosomal recessive
5. Quantitative inheritance defines
 - a. Variation in phenotype
 - b. Variation in genotype
 - c. Variation in environment
 - d. Variation in genes

6. Which of the following which is not intrinsic flour
 - a. Tryptophan
 - b. Phenyl alanine
 - c. Tyrosine
 - d. Histidine
7. Among the following which group has maximum number of endangered and critically endangered species as per IUCN red data list?
 - a. Amphibian
 - b. Reptile
 - c. Mammals
 - d. Aves
8. Germination of moth bean in dark is an example of
 - a. Photomorphogenesis
 - b. Skotomorphogenesis
 - c. de-etiolation
 - d. Shadding effect
9. Birds besides lungs have highly branched air sacs. The major function of air sac is to
 - a. Increase surface area for gas exchange
 - b. Help in ventilation during inhalation
 - c. Help in ventilation during exhalation
 - d. Help in ventilation during both inhalation and exhalation
10. Which is correct hierchical sequence in taxonomy?
 - a. PhylumClassOrderFamilyGenus
 - b. Class-Phylum-Order-Family-Genus
 - c. Phylum-Class-Family-Order-Genus
 - d. Phylum-Class-Order-Genus-Family