

## CSIR Paper 2 Life Science Questions (Part 10 of 10)

1. Which of the following organism excrete uric acid?
  - a. Human
  - b. Fish
  - c. Frog
  - d. Bird
2. For constructing recombinant plasmid, plasmid and DNA to be inserted are digested with same restriction enzyme and kept in same reaction solution. To prevent self sealing of plasmids, which of the following enzyme is utilized?
  - a. Alkaline phosphatase
  - b. Polynucleotide kinase
  - c. Terminal transferase
  - d. Ligase
3. Immunotoxins are
  - a. Bacterial toxins
  - b. Antibody for specific antigen tagged with toxin
  - c. Low immunogenic toxin
  - d. Anti-toxin
4. A aminopurine is attached to ribose sugar by N9 – C glycosidic bond would be termed as
  - a. Nucleotide
  - b. Deoxyadenosine
  - c. Adenosine
  - d. Adenosine monophosphate
5. 1 curie is equal to

- a.  $3.7 \times 10^9$  Becquerel
  - b.  $37 \times 10^9$  Becquerel
  - c.  $3.7 \times 10^6$  Becquerel
  - d.  $37 \times 10^6$  Becquerel
6. Which of the following is negative regulator of trp operon
- a. Lactose
  - b. Allolactose
  - c. C-AMP
  - d. Tryprophan
7. If there are only 20 individuals in a population then as per IUCN would be kpet under category
- a. Extinct
  - b. Rare
  - c. Endangered
  - d. Critically endangered
8. Maximum absorption of UV light at wavelength 280 nm by a protein is due to
- a. Aromatic amino acids
  - b. Aromatic amino acids and peptide bond
  - c. Aliphatic amino acids
  - d. Aromatic and aliphatic amino acids
9. What percentage of photo active radiation are actually utilized for photosynthesis by plants
- a. Lesser than 1 percent
  - b. 1 – 3 percent
  - c. 10 – 20 percent
  - d. >20 percent

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10. In knockout mice experiment germline transmission of gene A, null allele from a male chimera shows retarded growth of all mutant heterozygotes. On inbreeding animals produced the expected ratio of heterozygote pups but only 50 percent of heterozygote are with retarded growth of phenotype. This results are consistent with the following
- Genomic imprinting
  - Sex linked inheritance
  - Cytoplasmic inheritance
  - Dominant effect

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