

1. Which of the following group of alga lack sexual reproduction?
 - (A). Chlorophyta
 - (B). Xanthophyta
 - (C). Rhodophyta
 - (D). Cyanophyta

2. Which one of the following statement is not valid for nucleolus?
 - (A) It is delimited by a membrane
 - (B) It synthesizes some species of rRNA
 - (C) Ribosomal subunits are assembled in it
 - (D) It is characterized in having a nucleolar organizer

3. Circinate vernation characteristic of ferns is also seen in:
 - (A) *Pinus*
 - (B) *Cycas*
 - (C) *Gnetum*
 - (D) *Podocarpous*

4. Horizontal gene transfer in bacteria that involves cell to cell contact is commonly called:
 - (A) Conjugation
 - (B) Transformation
 - (C) Translation
 - (D) Transcription

5. A plant species that is confined to a particular area is commonly as:
 - (A) Exotic species
 - (B) Primitive species
 - (C) Endemic species
 - (D) Advanced species

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6. Bacterial resistance to antibiotics is conferred by:
 - (A) F-plasmids
 - (B) Hfr-plasmids
 - (C) D-plasmids
 - (D) R-plasmids

7. Which one of the following is not a fleshy indehiscent fruit?
 - (A) Tomato
 - (B) Pea
 - (C) Mango
 - (D) Cucumber

8. Kreb's tricarboxylic acid cycle is operated in the:
 - (A) Mitochondrial matrix
 - (B) Endoplasmic reticulum
 - (C) Lysosome
 - (D) Phagosome

9. In leguminous plants nodule formation is induced by:
 - (A) IBA
 - (B) IAA
 - (C) NAA
 - (D) 2,4D

10. The technique of obtaining large number of plantlet by tissue culture method is called:
 - (A) Anther culture
 - (B) Plantlet culture
 - (C) Organ culture
 - (D) Micropropagation

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11. The haploid set of chromosome in a cell is called:

- (A) Proteome
- (B) Genome
- (C) Genomics
- (D) Transcriptomics

12. Indefinite stamens are characteristics of the family:

- (A) Malvaceae
- (B) Asteraceae
- (C) Solanaceae
- (D) Labiatae

13. The exploitation of a species by the other for food is called:

- (A) Altruism
- (B) Parasitism
- (C) Allelopathy
- (D) Predation

14. Ti plasmid that is used as a plant vector is obtained from:

- (A) *Agrobacterium rhizogenes*
- (B) *Agrobacterium radiobacter*
- (C) *Agrobacterium tumifaciens*
- (D) *Thermus aquaticus*

15. The permanent loss of large number of species over a relatively short-period of geological time is known as:

- (A) Biodiversity hot spot
- (B) Alien species
- (C) Mass extinction
- (D) Threatened species

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Answers

1. (D) Cyanophyta
2. (A) It is delimited by a membrane
3. (B) *Cycas*
4. (A) Conjugation
5. (C) Endemic species
6. (D) R-plasmids
7. (B) Pea
8. (A) Mitochondrial matrix
9. (B) IAA
10. (D) Micropropagation
11. (B) Genome
12. (A) Malvaceae
13. (D) Predation
14. (C) *Agrobacterium tumifaciens*
15. (C) Mass extinction