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## NET, IAS, State-SET (KSET, WBSET, MPSET, etc.), GATE, CUET, Olympiads etc.: Botany MCQs (Practice\_Test 61 of 104)

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1. The top five crops, as on date, in terms of annual world production in millions of metric tons belong to the families
  - a. Gramineae and Solanaceae
  - b. Gramineae and Cruciferae
  - c. Gramineae and Leguminosae
  - d. Leguminosae and Malvaceae
2. Edible, freshwater algae would include
  - a. Porphyra and Chlorella
  - b. Spirulina and Lanunaria
  - c. Microcystis and Chondrus
  - d. Chlorella and Spirulina
3. Match List I with List II and select the correct answer:

List-I	List-II
a. Ficus benghalensis b. Melia azadirachta c. Cocos nucifera d. Hevea brasiliensis	a. Fibre b. Pesticide c. Latex

Table Supporting: NET, IAS, State-SET (KSET, WBSET, MPSET, Etc.), GATE, CUET, Olympiads Etc. : Botany MCQs

(Practice\_Test 61 of 104)

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4. Consider the following statements: Tissue culture is recommended for
  - a. Multiplication of elite genotypes

- b.* Developing virus-free plants
  - c.* Production of secondary metabolites
  - d.* Induction of polyploidy
  - e.* Of useful trees
  - Of this statements
    - a.* 1,2 and 4 are correct
    - b.* 1,2 and 3 are correct
    - c.* 1,3 and 4 are correct
    - d.* 2,3 and 4 are correct
- 5. Nitrogen fixation occurs in
  - a.* Some herbaceous plants and legumes
  - b.* Legumes and some bacteria
  - c.* Some bacteria, cyan bacteria and legumes
  - d.* All green plants
- 6. Climax communities
  - a.* Are more diverse than pioneer communities
  - b.* Are less stable than pioneer communities
  - c.* Have greater entropy than pioneer communities
  - d.* Have a larger number but fewer species of plants than pioneer communities
- 7. In the grasslands, trees do not replace the grasses as part of an ecological succession because of
  - a.* Insects and fungi
  - b.* Limited sunlight and paucity of nutrients
  - c.* Water limits and fire
  - d.* Cool temperatures and good soil
- 8. Which one of the following statements correctly defines the term biomass in forestry?
  - a.* The dry weight of the crop when it has attained the maximum growth
  - b.* The dry weight of the crop when it has attained the maximum height
  - c.* The dry weight of the crop when the spread of its canopy is maximum
  - d.* The dry weight of the standing crop at any moment of time
- 9. How does acid precipitation (acid rain) affect plants?
  - a.* It releases  $H^+$  ions, thereby increasing the rate of photophosphorylation in green cells
  - b.* It precipitates organic acids in palisade cells of leaves, thereby inhibiting respiration

- c.* It injures foliage leading to reduction in photosynthesis, biomass and occasionally death
  - d.* It precipitates toxic nutrients in soil leading to growth inhibition in trees
- 10. Which one of the following pairs serve as biofertilizers?
  - a.* Alb go and Nostoc
  - b.* Frankia and Nostoc
  - c.* Pseudomonas and E. Coil
  - d.* Aspergillus's and Actinomycetes
- 11. Mycorrhizal fungi mobilize nutrients from soils to roots of plants. The nutrient in question is
  - a.* Organic acid
  - b.* Phosphorus
  - c.* Manganese
  - d.* Potassium
- 12. 'DNA fingerprinting' has proved to be useful in forensic science. It involves the use of
  - a.* Minisatellites
  - b.* Nibosomal RNA
  - c.* cDNA
  - d.* Bacterial DNA
- 13. Many herbs of medicinal value can be obtained on a commercial scale by
  - a.* Developing a quick rooting and multiplying medium for vegetative buds
  - b.* Long-term hybridization process for increasing fertility of seeds
  - c.* Physiological research for finding the cause of non-viability of seeds
  - d.* Using the hormone dipping system for cutting
- 14. A recently discovered anti-cancer drug is obtained from
  - a.* Taxus
  - b.* Tagetes
  - c.* Tamaric
  - d.* Thea
- 15. Which one of the following statements is true in respect of India regarding the Dunkel proposals on plant Breeder Rights and Patent Law?
  - a.* The plant breeder's rights are available for a new variety produced, but these will be adversely affected by the Dunkel proposals
  - b.* The Indian Patent Law provides for process patent, but not for product patent; Dunkel proposals would require introduction of product patent

- c. Dunkel proposals will not suit India, because they will not allow plant breeder's rights to Indian plant breeders
- d. Dunkel proposals provide for farmers rights 'but not for plant breeder' rights