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## NET, IAS, State-SET (KSET, WBSET, MPSET, etc.), GATE, CUET, Olympiads etc.: Botany MCQs (Practice\_Test 73 of 104)

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all subjects of your exam.

1. Which of the following are the important characteristics of prokaryotes (methanogenic bacteria) ?
  - a. These cannot convert hydrogen to methane.
  - b. These cannot use  $\text{CO}_2$  as the growth substrate in which  $\text{CO}_2$  is reduced to methane.
  - c. These cannot grow autotrophically.
  - d. Those dwelling in sludge supernatant may require organic growth factors for growth.

o Select the correct answer using the codes given below:

  - a. 1,2 and 3
  - b. 1,3 and 4
  - c. 1,2 and 4
  - d. 2,3 and 4
2. Flowering plants which are the dominant species today started appearing on the Earth during the
  - a. Cambrian
  - b. Cretaceous
  - c. Carboniferous
  - d. Permian
3. Occurrence of heterostyly in some flowering plants is an evolutionary phenomenon exemplifying
  - a. Multiallelic sexual incompatibility
  - b. Homomorphism sexual incompatibility
  - c. Diallelic sexual incompatibility
  - d. Pleiotropic effect
4. The most widespread but distinctive cytogenetic process involved in the speciation of higher plants is
  - a. Interspecific hybridization

- b.* Autosomal mutation
  - c.* Polyploidy
  - d.* Apomixes
- 5. Plants growing at the equator are characterized by the absence of
  - a.* Secondary growth
  - b.* Heart and sap wood
  - c.* annual rings
  - d.* Soft wood
- 6. In Tilia the leaves are two-ranked and the nodes are
  - a.* Unilacunar
  - b.* Trilacunar
  - c.* Pentalacunar
  - d.* Multilacunar
- 7. On cool nights, following sultry days, water is found at the tips and margins of tomato leaves in the form of dew drops. Every drops marks the location of
  - a.* stomata
  - b.* lenticels
  - c.* Hydathoda
  - d.* Trichome
- 8. Which one of the following histogens is present in the roots but Not in the shoots?
  - a.* Calypptrogen
  - b.* Dermatogen
  - c.* Periblem
  - d.* Plerome
- 9. The above illustrations depict the differentiation
  - a.* Vessel Element
  - b.* Secretary idioblast
  - c.* sieve tube
  - d.* Bast fiber
- 10. Which one of the following is the modern approach is plant taxonomy?
  - a.* t-RNA analysis
  - b.* DNA fingerprinting
  - c.* Numerical taxonomy
  - d.* r-RNA analysis
- 11. Neotype is designated when

- a. All the original materials are lost
- b. Syntype is not available
- c. Holotype is lost
- d. isotype is available

12. Consider the following criteria:

- a. Cell type
- b. Level of organization
- c. Mode of reproduction
- d. Mode of nutrition
- o The criteria which formed the basis of the five-kingdom classification include
  - a. 1,2 and 3
  - b. 2,3 and 4
  - c. 1,2 and 4
  - d. 1,3 and 4

13. Match List I (Families) and List II (Placenta ions) and select the correct answer using the codes given below the lists.

List-I	List-II
<ul style="list-style-type: none"> <li>a. Caryophyllaceae</li> <li>b. Caesalpiniaceae</li> <li>c. Solanaceae</li> <li>d. Papaveraceae</li> </ul>	<ul style="list-style-type: none"> <li>a. Marginal</li> <li>b. Parietal</li> <li>c. Central</li> <li>d. Axial</li> </ul>
<p><i>Table Supporting: NET, IAS, State-SET (KSET, WBSET, MPSET, Etc.), GATE, CUET, Olympiads Etc. : Botany MCQs</i></p> <p><i>(Practice_Test 73 of 104)</i></p>	

**D**

**3214    1234**

**ABC     3142    1432**

14. In addition to bordered pits, tertiary spiral thickenings are also found in the tracheids of
- a. Pinus
  - b. Macrozamic
  - c. Taxus
  - d. Ephedra
15. Aposporously formed gametophytes in Dryopetris will bear gametes that are

- a.* Haploid
- b.* Diploid
- c.* Triploid
- d.* Tetraploid