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NET, IAS, State-SET (KSET, WBSET, MPSET, etc.), GATE, CUET, Olympiads etc.: Botany MCQs (Practice_Test 98 of 104)

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1. Consider the following statements about alkaloids:
 - a. They are heterocyclic ring compounds containing nitrogen and have basic properties.
 - b. They occur rarely (barring a few exceptions) in cryptogams gymnosperms or monocotyledons but they occur abundantly in d cotyledons.
 - c. They are synthesized mostly in flowers.
 - o Of these statements
 - a. 1,2 and 3 are correct
 - b. 2 and 3 are correct
 - c. 1 and 3 are correct
 - d. 1 and 2 are correct
2. The proton-pumps provide energy to cells through
 - a. pH gradient and electro potential gradient
 - b. ATP and ADP
 - c. Auxins and hormones
 - d. Carbolwdrates and lipids
3. Phytin is localized in
 - a. The globoid inclusions within protein bodies
 - b. Cytoplasm vacuoles
 - c. Oleosornes
 - d. Spherosomes
4. Match List I with List II and select the correct answer

List-I	List-II
<ol style="list-style-type: none">a. Glycine maxb. Lycopersicon esculentum	<ol style="list-style-type: none">a. Long day plantb. Short day plant

- c. Hyoscyamus niger
- d. Cestrum nocturnum

- c. Day neutral plant
- d. Short day-long day plant
- e. Long day-short day plant

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

(Practice_Test 98 of 104)

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5. Chemotropic movement of pollen tubes towards the micropylar end of the ovules in many cases has been attributed to the presence of
 - a. Mucilaginous substances on stigmatic papillae
 - b. Auxins gradient through stylar tissue
 - c. Gibberellins gradient through stigmatic and stylar tissue up to embryo sac
 - d. Calcium gradient through stylar tissue up to embryo sac
6. Which one of the following pairs is correctly matched?
 - a.
 - Match Item 1: Monophonic 4-nucleate
 - Match Item 2: Adoxa embryo sac
 - Match Item 1: Bisporic 8-nucleate
 - Match Item 2: Oenothera embryo sac
 - b.
 - Match Item 1: Tetrasporic 8-nucleate
 - Match Item 2: Fritillaries embryo sac
 - Match Item 1: Tetrasporic 16-nucleate
 - Match Item 2: Plumbago embryo sac
7. Hypohydrogamous pollination occurs in
 - a. Vallisneria
 - b. Elodea
 - c. Ceratophyllum
 - d. Hydrilla
8. During the development of a seed, if the mechanical layer differentiates from the outer epidermis of the outer integument, then the seed is said to be
 - a. Exotegmic
 - b. Mesotestal
 - c. Endotegmic
 - d. Exotestal

9. Which of the following pairs are correctly matched?

- a.
 - Match Item 1: Tegmen:
 - Match Item 2: Part of seed coat which actually is the dried up inner integument
 - Match Item 1: Caruncle
 - Match Item 2: A spongy outgrowth of helium and absorbs water
- b.
 - Match Item 1: Endothelrum
 - Match Item 2: Inner epidermal layer of integument in unitegmic ovules and functions similar to another tapetum
 - Match Item 1: Epithelium:
 - Match Item 2: Tissue of the scutellum abutting the endosperm; glandular in nature and secretes enzymes

○ Select the correct answer

- a. 1,2 and 3
- b. 1,3 and 4
- c. 1,2, 3 and 4
- d. 2 and 4

10. After-ripening dormancy has been reported in the seed

- a. Fraxinus excelsior
- b. Parkinsoma aculeata
- c. Pistacia lentiscus
- d. Trigonella indicia

11. Intra-specific incompatibility can be overcome by

- a. Intra-ovarian pollination
- b. Wetting of the stigma
- c. Bud-pollination
- d. Mixed pollination

12. Which of the following pairs of processes and terms denoting these processes are correctly matched?

- a.
 - Match Item 1: Movement of
 - Match Item 2: Nutation growing tips of twining plants
- b.
 - Match Item 1: Curvature caused
 - Match Item 2: Traumatotropism by injury to the tissues of organs
 - Match Item 1: Movement of plant
 - Match Item 2: Thigmotropism organs due to contact with solid surface

○ Select the correct answer using the codes given below:

- a. 2 and 3
- b. 1 and 3
- c. 1 and 2
- d. 1,2 and 3

13. Which of the following statements are correct?

- a. Gibberellins can substitute light treatment.
- b. Gibberellins can convert biennials into annuals.
- c. Gibberellins favor flowering in long day plants.
- d. Gibberellins induce flowering in short day plants.

○ Select the correct answer

- a. 1,2, 3 and 4
- b. 2 and 4
- c. 1,3 and 4
- d. 1,2 and 3

14. In a developing plant, the morphogenetic functions of P730 is to stimulate the

- a. Active genes
- b. Inactive genes
- c. Potentially active genes
- d. Repressible genes

15. Certain pigments regulate the process of photoperiodic. The pigments exist in two inter-convertible forms operating at two different wavelengths of light. The pigments in question are the

- a. Carotenoids
- b. Xanthophylls
- c. Phytochromes
- d. Chlorophylls