

## Examrace

### Competitive Exams: 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.

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
A. Glycine max	1. Long day plant

B. <i>Lycopersicon esculentum</i>	2. Short day plant
C. <i>Hyoscyamus niger</i>	3. Day neutral plant
D. <i>Cestrum nocturnum</i>	4. Short day-long day plant
	5. Long day-short day plant

**A B C D**

- a. 1 3 4 5
- b. 2 3 1 5
- c. 2 5 1 4
- d. 3 4 5 1
5. Chemotropic movement of pollen tubes towards the micropylar end of the ovules in many cases has been attributed to the presence of
- Mucilaginous substances on stigmatic papillae
  - Auxins gradient through stilar tissue
  - Gibberellins gradient through stigmatic and stilar tissue up to embryo sac
  - Calcium gradient through stilar tissue up to embryo sac
6. Which one of the following pairs is correctly matched?
- Monophonic 4-nucleate 褰Adoxa embryo sac
  - Bisporic 8-nucleate 褰. Oenothera embryo sac
  - Tetrasporic 8-nucleate 褰. Fritillaries embryo sac
  - Tetrasporic 16-nucleate 褰Plumb ago embryo sac
7. Hypohydrogamous pollination occurs in
- Vallisneria
  - Elodea
  - Ceratophyllum
  - 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. Endotogmic
- d. Exotestal

9. Which of the following pairs are correctly matched?

- a. Tegmen: 褰Part of seed coat which actually is the dried up inner integument
- b. Caruncle 褰A spongy outgrowth of helium and absorbs water
- c. Endothelrum 褰. Inner epidermal layer of integument in unitegmic ovules and functions similar to another tapetum
- d. Epithelium: 褰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. Movement of 褰Nutation growing tips of twining plants
- b. Curvature caused 褰Traumatotropism by injury to the tissues of organs

c. Movement of plant 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

