

Competitive Exams: Botany MCQs (Practice-Test 11 of 104)

1. Golden rice is a transgenic crop with a trait for
 - a. Pest resistance
 - b. High vitamin a content
 - c. Drought resistance
 - d. High protein content
2. In which one of the following combinations, the compounds are arranged in ascending order based on their molecular weights?
 - a. DNA, RNA, AMP, ADP, ATP
 - b. DNA, RNA, ATP ADP AMP
 - c. AMP ADP ATP RNA, DNA
 - d. AMP ATP ADP DNA, RNA
3. The strongest evidence for DNA being the genetic material is deduced from
 - a. The fact that DNA is present not only in the nucleus but also in mitochondria and plastids
 - b. The situation that chromosomes are made up of DNA
 - c. The researches involving transformation experiments in the bacterial cells
 - d. The reality that DNA has the potentiality to replicate
4. Match List I (Phenomenon) with List II (Effects/States) and select the correct answer:

List-I

- a. Crossing over
- b. Coupling
- c. Coincidence
- d. Repulsion

List-II

- a. Cis-configuration
- b. Trans-configuration
- c. Recombination
- d. Double cross-over

- | | A | B | C | D |
|----|----------|----------|----------|----------|
| a. | 3 | 1 | 4 | 2 |
| b. | 4 | 3 | 1 | 2 |
| c. | 2 | 1 | 4 | 3 |
| d. | 3 | 4 | 2 | 1 |

5. In a particular plant, genes for tall (T) plant and red (R) flowers are dominant over dwarf (t) plant and white (r) flowers. When a dithered of F₁ was test crossed. It produced following progenies:

- Tall and Red-44
- Tall and White-5
- Dwarf and Red-7
- Dwarf and White-44

What would be the distance between genes t and r on the basis of the data given above?

- a. 44 map units
- b. 5 map units
- c. 7 map units
- d. 12 map units

6. The main difference between luxuriance and heterocyst is that luxuriance is

- a. An environmental phenomenon while heterocyst is a genetic phenomenon
- b. Observed in self-pollinating species while heterocyst is obverted in crosspollinating species
- c. An evolutionary accident brought about by complementary action of genes while heterosis is an expression of superior adaptation
- d. Related to sterility while heterocyst is related fertility

7. Which one of the following pairs is NOT correctly matched?

- a. Inbreeding depression—Homozygosity
- b. Hybrid vigour—Heterozygosity
- c. Apogamy—Fertilization
- d. Male sterility—Cross-pollination

8. Consider the following statements: Apomixis is phenomenon in which

- a. Fertilization occurs regularly
- b. Fertilization does not occur at all
- c. Embryo is formed directly from an egg or male gamete
- d. Formed embryo may be haploid or diploid

Which of the above statements is/are correct?

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

9. The most commonly used growth regulator to induce somatic embryogenesis is

- a. BAP
- b. 2, 4 – D
- c. IAA
- d. GA₃

10. Which one of the following pairs is NOT correctly matched?

- a. Early blight of potato—*Alternaria solani*
- b. Brown rot of potato—*Pseudomonas solanacearum*
- c. Leaf spot of potato—*Cercospora concurs*
- d. Ring rot of potato—*Phytophthora infestans*

11. The species of *Tilletia* responsible for hill bunt or stinking smut of wheat are

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- a. Tilletia caries and T. Foetida
- b. Tilletia caries and T. Barclayana
- c. Tilletia caries and T. Foetida
- d. Tilletia contraversa and T. Caries

12. The foul fishy smell of a volatile chemical trimethylamine in the disease-infested wheat field is an indicator of

- a. Rust
- b. Smut
- c. Blast
- d. Bunt

13. Match List I with List II and select the correct answer:

List-I

List-II

- | | |
|-----------------------|---|
| a. Trichoderma | a. Bavistin |
| b. Systemic fungicide | b. Microorganisms inhabiting leaf surface |
| c. Phyllosphere | c. Ustilaginoidea vireos |
| d. False smut | d. Mycoparasitism |

A B C D

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

14. The main plant exported from Andhra Pradesh Is

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- a. *Oryza sativa*
- b. *Coffea arabica*
- c. *Nicotiana*
- d. *tabacum*
- e. *Cocos nucifera*

15. Match List I (Use) with List II (Name of the plant) and select the correct answer:

List-I

List-II

- | | |
|-----------|---------------------------------|
| a. Fibre | a. <i>Swietenia macrophylla</i> |
| b. Oil | b. <i>Arachis hypogaea</i> |
| c. Drug | c. <i>Corchorus capsularis</i> |
| d. Timber | d. <i>Taxus baccata</i> |

A B C D

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

16. Which one of the following pairs is correctly matched?

- a. Tannin—*Bixa orellana*
- b. Annatto—*Cassia auriculata*
- c. Indigo—*Indigofera caerulea*
- d. Cochineal dye—*Dactylopius coccus*