

Competitive Exams: Botany MCQs (Practice-Test 53 of 104)

1. A ratio of the observed frequency of double-crossovers to the expected frequency of double-crossovers is known as which one of the following?
 - a. Coefficient of selection
 - b. Coefficient of coincidence
 - c. Coefficient of variation
 - d. Coefficient of inbreeding
2. Genes that exhibit criss-cross inheritance are
 - a. Dominant genes
 - b. Co dominant genes
 - c. Sex-linked genes
 - d. Sex-limited genes
3. Which of the following DNA sequences are located upstream of transcription initiation sites in E. Coli?
 - a. Hogness box
 - b. Pribnow box
 - c. CAAT box
 - d. MADS box
4. The factors responsible for cytoplasm male sterility are located in the
 - a. Chloroplast DNA
 - b. rRNA
 - c. Nuclear DNA
 - d. Mitochondrial DNA
5. C bands occur in chromosomal regions having

Visit examrace.com for free study material, doorsteptutor.com for questions with detailed explanations, and "Examrace" YouTube channel for free videos lectures

- a. Pseudo-alleles
- b. heterochromatin
- c. Euchromatin
- d. Polygene

6. Match List I (Postulates) with List II (Scientists) and elect the correct answer using the codes given below

List-I

- a. Inheritance of the acquired characters
- b. Multiplication of individual species in geometrical proportion
- c. Mutation theory of evolution

List-II

- a. Hugo de Vries
- b. Julian Huxley
- c. Jean Baptiste Lamarck

 A B C

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

7. Gene to Gene hypothesis of host-pathogen interaction was proposed by

- a. Maclintox
- b. Flor
- c. Zadoks
- d. Agrios

8. Which one of the following is used as biocontrol agent of soil borne pathogens?

- a. Fusarium oxysporum

- b. *Trichoderma harzianum*
- c. *Pythium aphanidermatum*
- d. *Scierotium rolfsii*
9. *Colletotrichum* infecting sugarcane produces which of the following asexual fruiting bodies?
- a. Acervulus
- b. Pycnidium
- c. Sporodochium
- d. Synnemata
10. Which one of the following pathogens infect unfertilized ovary in wheat?
- a. *Puccinia graminis tritici*
- b. *Puccinia recondita*
- c. *Ustilago nuda tritici*
- d. *Puccinia striiformis*
11. The first resistance (R) gene, against *Helminthosporium carborum* race 1, known as Hm-1 gen was isolated from
- a. Rice
- b. Potato
- c. Maize
- d. Wheat
12. Match List (Rice diseases) with List II (Causal organisms) and select the correct answer using the codes given below the lists:

List-I

List-II

a. Blast

a. *Ephelis oryzae*

b. Stern rot

b. *Xanthomonas oryzae*

c. Udbatta

c. *Sclerotium oryzae*

d. Blight

d. *Pyricularia oryzae*

A B C D

a. 4 3 1 2

b. 2 1 3 4

c. 2 3 1 4

d. 4 1 3 2

13. The fiber of jute (*Corchrus*) is obtained from the

- a. Stalks of followers
- b. Secondary phloem
- c. Secondary xylem
- d. Leaf-sheaths

14. Which one of the following plants yields Turpentine oil?

- a. *Cymboopogon Citratus*
- b. *Pinus roxburghii*
- c. *Gentum ula*
- d. *Operculina turpethum*

15. In which of the following parts of Himjalaya the 'tree line' is at the highest altitude?

- a. Estern Himalaya
- b. Kumaun Himalaya
- c. Garhwal Himalaya
- d. Western Himalaya