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## Competitive Exams: Botany MCQs (Practice\_Test 21 of 104)

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- Which one of the following complexes is responsible for the cause of Tundu disease in wheat?
  - Fungus-nematode
  - Nematode-bacterium
  - Fungus-bacterium
  - Virus-fungus
- Match List I with List II and select the correct answer:

List-I (Fungal class)	List-II (Organism)
A. Ascomycetes	1. Agaricus
B. Basidiomycetes	2. Aspergillus
C. Deuteromycetes	3. Rhizopus
D. Zygomycetes	4. Saccharomyces

**A B C D**

- 4 2 1 3
- 2 1 3 4
- 4 1 2 3
- 2 3 1 4

3. Match List I (Name of plant disease) with List II (Name of Pathogen) and select the correct answer:

List-I	List-II
A. Angular leaf spot of cotton	1. Phytophthora infestans
B. Late blight of potato	2. Colletotrichum falcatum
C. Red rot of sugarcane	3. Cercospora personata
D. Tikka leaf spot of groundnut	4. Xanthomonas malvacearum

**A B C D**

a. 3 1 4 2

b. 4 1 2 3

c. 3 4 2 1

d. 4 2 1 3

4. Leaf hopper which acts as a vector in. The transmission of Tungro virus disease of rice is

a. Sagatella orizicola

b. Inazuma dorsalis

c. Nilaparvata lugans

d. Nephrotettix impicticeps

5. Carotenoids are

a. Glycoproteins

b. Hydrocarbons

c. Polyaccharids

d. Lipoproteins

6. Consider the following statements:

a. Orchids are monocotyledonous plants

b. Orchids have only ornamental value

c. All orchids are autotrophs

d. Some orchids are epiphytes

Which of these statements are correct?

a. 1 and 2

b. 2 and 3

c. 1 and 4

d. 3 and 4

7. Which one of the following pairs of selectable marker genes and substrates used to select transformed cells is not correctly matched?

a. Npt II 褰Kanamycin

b. Hpt 褰Hygromycin

c. Dhfr 褰Gentamycin

d. Bar 褰Bialaphos

8. Multiple alleles are present at

a. Different loci on the same chromosome

b. Same locus on different chromosomes

c. Different loci on different chromosomes

d. Same locus on homologous chromosomes

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

List-I (Fruits)	List-II (Edible parts)
A. Cashew	1. Thalamus
B. Coconut	2. Cotyledons
C. Apple	3. Endosperm Aril
D. Litchi	

**A B C D**

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a. 2 3 1 4

b. 1 3 4 2

c. 2 1 3 4

d. 3 4 1 2

10. In linkage studies of plants, for genetic mapping, trihybrid test cross result is considered rather than dihybrid test cross result. Why?
- a. The results are based on only four classes of progeny obtained in dihybrid cross
  - b. The percentage of genetic recombination is always less between two genes compared to three genes
  - c. Double crossover results cannot be calculated in a dihybrid test cross
  - d. Equal frequency of progeny are derived in a dihybrid test cross
11. Parthenocarpy has been introduced in eggplant by inserting a bacterial gene responsible for the synthesis of
- a. Gibberellin
  - b. Cytokinin
  - c. Auxin
  - d. Abscis acid
12. Consider the following statements:
- a. Ectocarpus has an alternation of isomorphic generations
  - b. Fucus has no free living haploid generation
  - c. All red algae are multicellular organisms
  - d. Brown algae have a few unicellular species

Which of these statements are correct?

a. 1,2, 3 and 4

b. 2,3 and 4

c. 1,3 and 4

d. 1 and 2

13. Sympatric species are
- Individuals occupying the same geographical area but are not capable of exchanging genes
  - Individuals occupying the same geographical area and showing identical phenotypes
  - Descendants of the same parents distributed, in the same geographical area
  - Individuals occupying the same geographical area and capable of exchanging genes
14. In the transcription process, a specific factor called rho ( $\rho$ ) factor is involved and its function is to
- Recognize specific signals on the DNA template and cause RNA synthesis to terminate
  - Initiate transcription of m-RNA on the DNA template
  - Help binding of RNA Polymerase to DNA template
  - Bind with the sigma factor and help to start the transcription by RNA

Polymerase

15. Match List I (Type of rainfall) with List II (Type of vegetation) and select the correct answer:

List-I	List-II
A. Moderate to heavy rainfall throughout the year	1. Scrub forests
B. Moderate to heavy rainfall occurring in 7 to 8 months in a year	2. Grasslands
C. Little summer precipitation but sufficient rainfall in the winter	3. Evergreen rain forests
D. Sufficient rainfall in summer and little in winter	4. Deciduous forests

**A B C D**

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a. 2 4 3 1

b. 3 1 4 2

c. 2 3 1 4

d. 3 4 1 2

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