

Competitive Exams: Botany MCQs (Practice-Test 1 of 104)

1. Nucleotides are linked to one another in mRNA by
 - a. Hydrogen bonds
 - b. Hydmpobic bonds
 - c. Glycoside bonds
 - d. Phosphodiester bonds
2. Is chromosomes are the chromosomes with
 - a. Identical sizes
 - b. Identical arms
 - c. Identical gene content
 - d. Identical shapes
3. Match List I (Distinguishing feature based on chromosomal appearance) with List II (Stage of meiosis) and select the correct answer:

List-I

- a. Terminal zed chiasmata
- b. Exchange of segments of chromatids
- c. Synopsis of homologous chromosomes
- d. Appearance of chiasmus

List-II

- a. Pachytene
- b. Zygotene
- c. Diakinesis
- d. Leptotene

A B C D

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

4. Which one of the following vectors can accommodate the largest size of DNA?

- a. Plasmid
- b. Cosmid
- c. Lambda phage
- d. Yeast artificial chromosomes

5. Which one of the following statements about meiosis in plants is NOT correct?

- a. The cytoplasmic channels in the medullary cells of higher plants permit passage of a number of cytoplasm components from one cell to the other to maintain the meiotic synchrony
- b. There is a conspicuous reappearance of a large proportion of ribosome population during zygotene in the meiocyte
- c. During early prophase, the chromosomes condense a clump onto one part of nuclear envelope to constitute the so-called synizesis stage
- d. Synaptonemal complex of zygotene is the structure responsible for chromosomal alignment and pairing

6. Crossing of F1 heterozygous with the homozygous recessive parent is known as

- a. Test cross
- b. Poly cross
- c. Reciprocal process
- d. Top cross

7. A diploid population having individuals with different chromosome numbers ranging from $2n + 3$ to $2n - 3$ is a
- Polyploidy
 - Ditriploid
 - Ancuploid
 - Trainload

8. Consider the following features:

- Population consists of interbreeding groups of individuals
- Population does not form the basic unity of study in population genetics.
- Gene frequency is the important single index characterizing the population

Which of these are characteristic of a

Mendel Ian population?

- 1 and 2
- 1 and 3
- 2 and 3
- 1, 2 and 3

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

List-I

- Recombinant DNA
- Agro bacterium
- Sticky ends
- Plasmids

List-II

- Marker gene-reporter gene
- DNA lipase
- T DNA
- Restriction enzymes

A B C D

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

10. Which one of the following is NOT a PCR-based molecular marker?

- a. RAPD
- b. AP-PCR
- c. DAF
- d. RELP

11. Gamma garden is used for

- a. Growing plantlet produced by tissue culture
- b. Eradicating pathogens from infecting. Plants
- c. Growing genetically engineered plants on trail basis
- d. Mutation breeding for crop improvement

12. Which one of the following enzymes is NOT made up of polypeptides?

- a. Ligase
- b. Ribosome
- c. Lysozyme
- d. Chemotropism

13. Primary transcript processing the involves axons originating in primary transcripts of different genes being legated together is

- a. Trans-splicing
- b. Primary splicing

- c. Intone-splicing
- d. Exon-splicing

14. Consider the following statements: Hybrid plants can show

- a. Sterility
- b. Mosaicism
- c. Crossing over
- d. Vigour
- e. Homozygosis

Which of the above statements are correct?

- a. 2, 3 and 5
- b. 2, 4 and 5
- c. 1, 2 and 4
- d. 1, 3 and 4

15. Which one of the following condition/set of conditions is essential for successful exploitation of heterocyst?

- a. High heterolysis effect
- b. Male sterility
- c. Male sterility and high heterocyst
- d. High heterocyst and a method for commercial production of hybrid seeds

Discussions & Questions

where are the answers for questions on mcqs on botany (- da...@ on 26-Feb-2018)

[1 Answer](#)

For botany MCQs refer - <https://www.doorsteptutor.com/Exams/NEET/>

- Examrace on 26-Feb-2018

Which has the largest human chromosome? (- su...@ on 20-Apr-2015)

[1 Answer](#)

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The largest human chromosome, chromosome number 1 has approximately 220 million base pairs and is 85 mm long.

- Examrace on 20-Apr-2015