

Competitive Exams: Agriculture MCQs (Practice-Test 53 of 56)

1. If, in a native DNA. The number of adenine bases is equal to the number of thymine bases and the number of guanine bases is equal to the number of cytosine bases, then which of the following will be true?

- a. $A/T = G/C$
- b. $A + T = G + C$
- c. $A + G = C + T$

Select the correct answer using the codes given below:

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

2. Consider the following statements: The use of a synthetic variety is advantageous when compared to use of single cross or double cross hybrids because

- a. Synthetic varieties are high yielding when compared to hybrids.
- b. Farmers can save their own seed.
- c. Synthetics have wider adaptability.
- d. There is no need for making crosses every year.

Of these statements

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

3. In modern agriculture, which one of the following vectors is commonly used for gene transfer from one species to another?

- a. Azotobacter
- b. Agrobacterium
- c. E-coli
- d. Neurospora

4. Isogenic lines are

- a. Lines identical in phenotype but having different genotypes
- b. Homozygous lines developed through continuous inbreeding
- c. Genotypically and phenotypic ally identical lines
- d. Lines identical in genotype except for one gene

5. Match List I with List II and select the correct answer using the codes given below the lists:

List-I

List-II

- | | |
|----------------------|---|
| a. Hybrid variety | a. F1 plants that grow commercially |
| b. Pur line variety | b. Maintained through open pollination after its synthesis by hybridization in all possible combinations of a number of component lines that have been tested for their combining ability |
| c. Composite variety | c. Advanced generation of randomly bred population of elite crosses |
| d. Synthetic variety | d. Progeny developed from a homozygous autogamous crop plant |

A B C D

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

6. Match List I (Crop) with List II (Variety) and select the correct answer using the codes given below the lists:

List-I

- a. radish
- b. Tomato
- c. Cauliflower
- d. Cabbage

List-II

- a. Pusa ruby
- b. Golden Acre
- c. Pusa Himani
- d. Dania

A B C D

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

7. Consider the following statements regarding Triticale:

- a. It is a cross between *Secale cereale* ($2n = 14$) and *Triticum aestivum* ($2n = 42$).
- b. It is amphidiploids with 56 chromosomes.

c. It has a high degree of fertility.

Of these statements

- a. 1, 2 and 3 are correct
- b. 1 and 2 are correct
- c. 1 and 3 are correct
- d. 2 and 3 are correct

8. Consider the following factors:

- a. Seed germination
- b. Seed-borne diseases
- c. Genetic purity
- d. Weed seeds

The correct sequence in terms of importance (most important first, least important last) of these factor from the point of view of seed certification is

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

9. Consider the following steps:

- a. Selection of four inbred parent lines
- b. Production of unifor homozygous inbred lines
- c. Crossing two inbred lines to produce single cross
- d. Crossing two single crosses in combinations to produce double cross
- e. Treating the parent material with colchicines

The steps involved in the production of hybrid maize seed include

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

d. 1, 4 and 5

10. Consider the following statements:

- a. DNA is a double helical molecule.
- b. The sugar moiety in both DNA and rRNA has the same chemical formula.
- c. DNA replicates precisely during cell division.

Of these statements

- a. 1, 2 and 3 are correct
- b. 1 and 2 are correct
- c. 2 and 3 are correct
- d. 1 and 3 are correct

11. At meiotic metaphase-the presence of a dicentric chromatid bridge and an a centric fragment could be due to

- a. A paracentric inversion with a crossing over inside the loop
- b. A reciprocal translocation with a crossing over in each bivalent segment
- c. A paracentric inversion with a crossing over outside the loop
- d. A paracentric inversion with a crossing over inside the loop

12. In nature, polyploidy star tending towards vegetative propagation. The Reason for this can be

- a. Meiotic suppression
- b. Loss of homology
- c. Erratic gametes
- d. Chromosomal aberrations

13. Match List I (Aneuploid series) with List II (Genomic formula) and select the correct answer using the codes given below the lists:

List-I

- a. Nullisomic-nosomic
- b. Double monosomic

List-II

- a. $2n + 11$
- b. $2n + 1$

- c. Monosomic-isonic c. $2n21$
- d. Trisomic-nosomic d. $2n1 + 2$
- e. $2n11$

- | | A | B | C | D |
|----|----------|----------|----------|----------|
| a. | 4 | 3 | 1 | 2 |
| b. | 3 | 4 | 1 | 2 |
| c. | 4 | 5 | 2 | 1 |
| d. | 3 | 5 | 2 | 1 |

14. Which one of the following is an important method for achieving self-rtilization in self-compatible crops?
- a. Mutation
 - b. Self-pollination
 - c. Artificial pollination
 - d. Bud pollination
15. The following methods ar used for hybrid seed production: S Parent (Male sterile) S Parent (Male fertile) Hybrid seed Which of the above method (s) is/ar used for producing hybrid seed for commercial crop?
- a. 1 and 2
 - b. 2 and 3
 - c. 1 alone
 - d. 2 alone
16. Consider the following statements: The vertical resistance against plant pathogens
- a. Is controlled by Oligocene's

- b. Shows path type specificity
- c. Provides complete resistance

Of these statements

- a. 1 alone is correct
- b. 1 and 3 are correct
- c. 2 and 3 are correct
- d. 1, 2 and 3 are correct

17. Double cross hybrids are produced by cross between

- a. Two F1 from the reciprocal crosses
- b. An inbred line and an open pollinated variety
- c. Two inbred lines followed by crossing F2 with another inbred line
- d. Two F1s from two single crosses

18. Match List I (Crop) with List II (Centre of origin) and select the correct answer using the codes given below the lists:

List-I

- a. Soybean
- b. rice
- c. Groundnut
- d. Bread wheat

List-II

- a. Brazil
- b. Central Asia Minor
- c. China
- d. India and SE Asia

A B C D

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

19. The latest variety of mango released by the Indian Institute of Horticultural research, Bangalore, is

- a. Mallika
- b. Arka neelkiran
- c. Arka navneet
- d. Arka kurfi

20. Which one of the following planting systems of orchard can accommodate about 15% more number of fruit trees per hectare as compared to the square system?

- a. Triangular system
- b. Hexagonal or equivalent triangular system
- c. Quincunx system
- d. Contour system

21. Consider the following statements: Banana is NOT grown commercially in the plains of North India or low Himalayan hills because

- a. Long dry season in these areas is not suitable for banana cultivation.
- b. Frost in these areas causes severe damage to banana plants
- c. The soil condition in these areas is not suitable for banana cultivation
- d. Hot dry winds in summer shred banana leaves causing serious injury to the plants.

Of these statements

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

22. Match List I (Vegetable crops) with List II (recommended seed rate in kg/hectare) and select the correct answer using the codes given below the lists:

List-I

List-II

- | | |
|-------------|-------------------------|
| a. Carrot | a. Seed Rate 2 and half |
| b. Cucumber | b. Seed Rate 5 |
| c. Okra | c. Seed Rate 7 and half |
| d. Pea | d. Seed Rate 75 |

A B C D

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

23. Chrysanthemum flower under

- a. Shor days
- b. Medium days
- c. Long days
- d. Day-utral conditions

24. Consider the following under An ideal grass for lawn is that which

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- a. Quickly establishes itself, spreads fast cover the
- b. remains green round the year and can withstand ground drought and cold conditions with equal hardiness
- c. Can tolerate frequent roller and mowings
- d. Is resistant to diseases and pests

Of these statements

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

25. Which of the following produce scented flower?

- a. *Gestrum noctunum*
- b. *Hibiscus rosa chine sis*
- c. *Gardenia Lucida*
- d. *Murraya paniculata*

Select the correct answer using the codes given below:

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