

Examrace

Competitive Exams: Agriculture MCQs (Practice_Test 52 of 56)

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1. Consider the following characteristics of legume root nodule:

- a. Large and elongated.
- b. Often clustered on primary root.
- c. Pink to red centre.

Among these, the effective root nodules would include:

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

2. Consider the following statements regarding the dung slurry coming out of biogas plant:

- a. The slurry contains nitrogen both in the ammonia and non-ammoniacal form.
- b. The nitrogen percentage of the slurry is much higher than that of the used in the gas plant.
- c. The carbon-nitrogen ratio of the slurry from the gas plant is 10: 1.

Of these statements

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

3. Nitrogen fertilizer use efficiency in rice can be increased by using

- a. Sulphur-coated urea
- b. Blue green algae
- c. Urea super granules

d. Sulphur coated urea super granules

4. Following fertilizer are available for preparing a fertilizer mixture:

- a. Ammonium sulphate
- b. Urea
- c. Single superphosphate
- d. Basic slag
- e. Muriate of potash

A combination of the above-mentioned fertilizer which can be mixed and kept for three months or more is

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

5. Which one of the following mechanisms is valid for noncompetitive enzyme inhibition? The inhibitor

- a. Does not combine with the enzyme
- b. Has close structural similarity to the substrate
- c. Combines with the enzyme at a location different from where the substrate attaches itself
- d. Forms a complex with the substrate at a specific point to improve efficiency

6. Plant roots are

- a. Positively phototropic
- b. Negatively hydrotropic
- c. Negatively geotropic
- d. Positively geotropic

7. Which one of the following nutrients plays the most effective role in controlling the rate of transpiration?

- a. Phosphorus
- b. Potassium
- c. Zinc
- d. Magnesium

8. Match List I (Diagnostic symptoms) with List II (Deficient nutrient) and select the correct answer:

List-I	List-II
A. Death of apical buds, leathery leaves	1. Zinc
B. Unifor paling of plants without much of stunting	2. Sulphur
C. Unifor paling of top leaves and lower leaves remain green	3. Molybdenum
D. Interveinal chlorosis of newly formed leaves and reduction in leaf size	4. D. 4. Boron

A B C D

a. 4 3 1 2

b. 3 4 1 2

c. 3 4 2 1

d. 4 3 2 1

9. Consider the following processes:

- Oxidation of carbohydrates.
- Oxidation of pyruvic acid
- release of CO₂, water and energy.

The correct sequence of these processes in respiration of upland paddy grown at an altitude of 725 metres is Select the correct answer using the codes given below:

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

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

List-I	List-II
A. Transpor of electrons from Ferredoxinton to P700	1. Oxidative Phosphorylation

<p>B. Transpor of electrons from PS II to PSI</p> <p>C. Generation of ATP by mitochondrial oxidation of NADPT</p> <p>D. Generation of ATP by the conversion of PEP to pyruvat</p>	<p>2. Substrate level phsophorylation</p> <p>3. Cyclic phosphorylation</p> <p>4. Non-clic phosphorylation</p>
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A B C D

a. 3 4 1 2

b. 2 3 4 1

c. 1 2 3 4

d. 4 1 2 3

11. Almost 90 % of the total output of photosynthesis in the for of glucose is credited to

- Green plank tonic micr flor of the oceans and seas
- Grasses and shrubs
- Gymnosperms
- Angiosperms

12. Which of the following is/ar the Reason (s) for poor fruit set of tomato?

- Average atmospheric temperature higher than the optimum.
- Average atmospheric temperature lower than the optimum.
- Several attack by the leaf cur virus.
- Wide fluctuations in the average atmospheric temperature.

Select the correct answer using the codes given below:

- 1 and 4
- 3 alone
- 2,3 and 4
- 1,2.3 and 4

13. Which one of the following plant hormones shows energy dependent polar transport?

- Cytokinin

- b. Ethylene
- c. Indole acetic acid
- d. Gibberellic acid

14. Genes which suppress or enhance the expression of other genes are called

- a. Dominant genes
- b. recessive genes
- c. Modifier genes
- d. Duplicate genes

15. Which of the following conditions favor natural cross pollination?

- a. Monoecious
- b. Cleistogamy
- c. Protogyny
- d. Protandry

Select the correct answer using the codes given below:

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

16. A character under study is governed by four allelic pairs. In such a situation, the number of possible genotypes in F₂ generation will be

- a. 64
- b. 81
- c. 87
- d. 256

17. Which of the following are relevant to combining ability

- a. GCA.
- b. SCA.
- c. IBL
- d. CLO

Select the correct answer using the codes given below:

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

18. Match List I (Situation) with List II (Effect) and select the correct answer:

List-I	List-II
A. Cytoplasmic male sterility	1. Induces dwarfism in wheat
B. Nonn-gene	2. Hybrid seed production
C. Ear to row breeding	3. Selection procedur in a highly heritable crop
D. Nullisomic	4. Plant with one chromosome less than normal

A B C D

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

19. One the basis of the above Brassica triangle, the chromosome number of Brassica carinata will be

- a. $4n = 32$
- b. $4n = 34$
- c. $4n = 36$
- d. $4n = 38$

20. The phenotypic ratios of progenies in a cross between Aa Bb x a a b b ar as following:
Phenotypes ratio AB 02.1 % Ab 47.0 % aB 48.6 % ab 02.3 % This may be due to the fact that the genes

- a. A and B ar in repulsion phase
- b. A and B ar in coupling phase
- c. A and B ar linked but situated quite for apar on the chromosome

d. A and B do not belong to the same group

21. Consider the following steps:

- a. Testing the combining ability.
- b. Production of inbred lines.
- c. Selection of inbred lines.
- d. Production of F seed.

The correct sequence of these steps in the process of hybride seed production is

- a. 1,2, 3,4
- b. 1,2, 4,3
- c. 2,1, 4,3
- d. 2.1,3, 4

22. The general combining ability of a maize inbred may be defined as the average performance of the inbred

- a. In a series of crosses
- b. At least for three year in a particular location
- c. Across location representing different soil and climatic conditions
- d. At several locations over a number of years

23. Which one of the following would give the highest yield in a particular crop?

- a. Single cross hybrid
- b. Double cross hybrid
- c. Composite variety
- d. Synthetic variety

24. Consider the following steps:

- a. Evaluation of parents.
- b. Emasculation.
- c. Pollination.
- d. Bagging and tagging.

The correct sequence of these steps in a breeding programme is

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

c. 2,1, 3,4

d. 2,1, 4,3

25. What would be consequences if the two individuals, female (S₁ S₂) is crossed with male (S₃S₄) carrying S alleles (selfincompatible gene) ?
- 100 % self-mpatible
 - 100 % self-compatible
 - 50 % self-mpatible
 - 50 % self-compatible
26. The principal male sterile line introduced for hybrid pear millet production in India was
- Tift23A
 - BJ-4
 - MHB-8
 - CO-2
27. In pigeon pea, the hybrid seed production is made possible due to
- Genetic MS lines
 - CMS lines
 - CGMS lines
 - Embryo rescueli
28. Which one of the following genes was utilized in the production f high protein composites in maize?
- rht-1
 - Dee Zee Woo Zen
 - Opaque-2
 - Norm
29. Match List I (Crop) with List II (Variety) and select the correct answer:

List-I	List-II
A. rice	1. UP 262
B. Wheat	2. Hybrid Ganga
C. Maize	3. red Kafir

D. Sorghum	4. IET4094
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A B C D

a. 4 1 3 2

b. 1 4 2 3

c. 4 1 2 3

d. 1 4 3 2

30. reselection generation after generation within the inter mating of line selects is called

a. Pur line selection

b. Mass selection

c. Transgressive selection

d. recurrent selection

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