

## Examrace

### Competitive Exams: Agriculture MCQs (Practice\_Test 42 of 56)

Get unlimited access to the best preparation resource for competitive exams : [get questions, notes, tests, video lectures and more](#)- for all subjects of your exam.

1. The unconsolidated material on the underlying rock called
  - a. regolith
  - b. Soil
  - c. Solum
  - d. Earth
2. If a soil has a bulk density of 1.50 mg/m<sup>3</sup> and a particle density of 2.65 mg/m<sup>3</sup> than the percentage por space of that soil will be
  - a. 35.0
  - b. 38.5
  - c. 53.4
  - d. 48.5
3. Active soil forming factor would include
  - a. Vegetation and to pography
  - b. Time, topography and climate
  - c. Time, and vegetation
  - d. Vegetation and climate
4. The black cotton soils of central India have been derived from
  - a. Granites
  - b. Grandiosities
  - c. Basalt
  - d. rhyolite
5. Which one of the following minerals is LEAST weather able in soil?
  - a. Olivine
  - b. Quartz

c. Calcite

d. Biotitic

6. The given diagram is that of soil textural triangle. A soil having 15 % clay, 65 % sand and 20 % silt will be classified on the basis of the given diagram, as Figur (Triangle)

a. Sandy clay loam

b. Loam

c. Loamy sand

d. Sandy loam

7. Match List I (Microbial reaction) with List II (Soil organisms) and select the correct answer:

List-I	List-II
A. Sulphate reduction	1. Thiobacillus
B. Sulphite oxidation	2. Desulfotomaculum
C. Nitrate oxidation	3. rhodospirillum
D. Nitrogen fixation	4. Nitrobactor

**A B C D**

a. 1 2 3 4

b. 2 1 4 3

c. 2 1 3 4

d. 1 2 4 3

8. Properties of four different soils are given in the following table

- Soil property Soils Soil I Soil II Soil III Soil IV Organic matter (%)
- 3.1 0.8 2.0 0.4
- Clay (%) 38.1 10.0 30.2 12.0
- Sand (%) 51.2 74.0 50.1 70.0
- Type o clay (%) 2: 1 1: 1 2: 1 1: 1 pH 5.2 5.2 5.2 5.2

Which one of these soils will require the largest quantity of lime to raise its pH to 65?

- a. Soil I
  - b. Soil II
  - c. Soil III
  - d. Soil IV
9. The given chart shows the classification of irrigation water: Irrigation water having  $\text{Na}^+ = 15 \text{ me/liter}$  ( $\text{Ca}^{2+} + \text{Mg}^{2+}$ ) ,  $= 8 \text{ me/liter}$  and conductivity =  $\text{EC}-106 = 2300 \text{ umho/cm}$  can be classified as
- a. C4S2
  - b. C3S3
  - c. C4S3
  - d. C1S1
10. The following figure shows the relationship between nutrient concentration in the plants and yield of crops: Which protein (s) of the curve fall (s) in hidden hunger zone?
- a. A and B
  - b. B and C
  - c. B and C
  - d. A alone
11. The best estimate of the available P in phosphatic fertilizer is obtained from the
- a. Water soluble fraction
  - b. Citrate-soluble fraction
  - c. Citrate soluble fraction
  - d. Water soluble and citrate soluble fractions
12. Given that  $\frac{dy}{dx} > 1$  then increase of yield per unit of growth factor  $A = \text{maximum yield } Y = \text{Yield without growth factor } C = \text{a constant}$  Mitcherlich equation for evaluation of soil fertility is given
- a.  $\frac{dy}{dx} (A y) C/dx = 2$
  - b.  $\frac{dy}{dx} (Y A) C/dx = 1$
  - c.  $\frac{dy}{dx} (A y) /dx < 1$
  - d.  $\frac{dy}{dx} (A Y) C/dx > 1$
13. E-blue is

- a. Defined as the isotopic ally exchangeable P in the soil and soil solution as determined by crop uptake
  - b. Defined as the isotopically exchangeable P in the soil as determined by  $^{32}\text{P}$
  - c. The same as the L-lue
  - d. The difference between A and L values
14. Consider the following statements: Vermicom post is considered to be better because
- a. It does not requir turning of compost material
  - b. It needs less composting time
  - c. It takes place at a comparatively low temperature
  - d. It has higher enzymatic activity

Of these statements

- a. 1,2, 3 and 4 are correct
  - b. 1 and 2 are correct
  - c. 2,3 and 4 are correct
  - d. 1,3 and 4 are correct
15. Match List I with List II and select the correct answer:

List-I	List-II
A. Gypsum	1. Magnesium fertilizer
B. 17: 17: 17	2. Micronutrient fertilizer
C. Serpentine	3. Calcium fertilizer
D. Chelates	4. Compound/complex fertilizer

**A B C D**

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

16. Sulphate of Potash is preferable to Muriate of Potash (MOP) for tobacco because
- The chlorine in the MOP affects the burning quality of tobacco
  - The chlorine in the MOP increases the nicotine content of tobacco
  - The application of MOP results in the luxur consumption of potassium
  - The sulphate iron helps to increase the availability of other nutrients
17. Match List I (reactants used for the preparation of fertilizers) with List II (Fertilizer produced) and select the correct answer:

List-I	List-II
A. rock phosphate, phosphoric acid	1. Urea
B. rock phosphate, phosphoric acid nitric acid, ammonia	2. Ammonium sulphate
C. Ammonia, gypsum CO <sub>2</sub>	3. Nitr phosphate
D. Ammonia CO <sub>2</sub>	4. Concentrated super phosphate

**A B C D**

- 4 3 1 2
  - 4 3 2 1
  - 3 4 2 1
  - 3 4 1 2
18. Entr of potassium ions root hair in soils having a low potassium ion content in the soil is mediated through
- Ion exchange through
  - Mass flow phenomenon
  - Donnan equilibrium process
  - Utilization of metabolic energy
19. Consider the following statements: According to cohesion theor for the ascent of sap, water moves from the roots through the stems to the leaves in tall trees because of
- Forces of root pressure.

- b. The gradient in decreasing water potentials from the soil, through the plant to the leaves.
- c. Forces of adhesion of water to cell walls, especially in the leaves.
- d. Forces of cohesion between water molecules.

Of these statements

- a. 1,2 and 3 are correct
  - b. 2,3 and 4 are correct
  - c. 1,3 and 4 are correct
  - d. 1,2 and 4 are correct
20. Which one of the following physiological processes requires close coordination of three different organdies such as mitochondria, chloroplast and peroxisome?
- a. Photosynthesis
  - b. Photorespiration
  - c. repiration
  - d. Protein synthesis
21. Which of the following ar characteristic of C<sub>4</sub> plants?
- a. Ther ar two CO<sub>2</sub> acceptor namely PEP and ruBP
  - b. ruBP carboxylase is present in the mesophyll cells.
  - c. The first stable product is a 4-rbon compounds.
  - d. Oxygen does not have any inhibitory effect on the process.

Select the correct answer using the codes given below:

- a. 1,2 and 4
  - b. 1,3 and 4
  - c. 2,3 and 4
  - d. 1,2 and 3
22. Which one of the following is a set of high energy products of the light reaction of photosynthesis that ar used in dark reaction?
- a. ATP and plastocynine
  - b. ATP and NADP
  - c. ATP and (NADPH + H +)

d. Plastoquinone and ferridoxine

23. Which of the following pair of hormones and bioassay techniques are correctly matched?

- a. Cytokinin 藪Radish cotyledon test
- b. Gibberellic acid 藪Rice second leaf test
- c. Indole 藪Acetic acid coleoptile curvature test

Select the correct answer using the codes given below:

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

24. Which of the following statements about carotenoids are correct?

- a. Carotenoids present in coleoptile affect the destruction of auxin by light.
- b. Pollens generally carried by insects for pollination contains carotenes whereas carotenoid pigments are rarely detected in pollens of wind pollinated flowers.
- c. They cause a suitable drop in light intensity leading to a gradient of increasing auxin concentration from the lighted side to the darker side.
- d. They absorb blue light to produce phototropic curvature in oat coleoptiles in phycomyces and also in certain blue-green algae.

Select the correct answer using the codes given below:

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

25. Match List I (Sources of character) with List II (Character exploited) and select the correct answer:

List-I	List-II
A. Norin-	1. resistance to Puccinia recondite causing leaf rust in wheat
B. Opaque-2	2. Semi dwarfing habit in rice
C. Dee-e-o-n	3. Protein content in maize

D. Lr genes	4. Shor stature in wheat
-------------	--------------------------

**A B C D**

a. 4 3 1 2

b. 4 3 2 1

c. 3 4 1 2

d. 3 4 2 1

26. Given that the somatic chromosome number of *Triticum aestivum* is  $2n = 6x = 42$ , which one of the following pair is correctly matched?

a. Monosome  $N = 40$

b. Trisome  $2n = 42$

c. Tetrasome  $N = 41$

d. Nullisome  $2n = 41$

27. When breaks occur in two chromosomes simultaneously in a nucleolus and the broken chromosomes rejoin in a new manner it results in

a. Deletion

b. Duplication

c. Translocation

d. Inversion

28. Consider the following statements:

a. Heterochromatin is concentrated near the nuclear envelope and near the nucleolus.

b. Euchromatin is visible during interphase and is distributed throughout the nucleoplasm

c. Euchromatin is concentrated near the nucleolus and near the nuclear envelope

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

29. The segregation of individuals in the F<sub>2</sub> or in a later generation of a cross, which shows a more extreme development of a character than either parent is termed as

a. Hybridization

b. Heterosis

c. Linkage

d. Transgressive segregates

30. Heritability may be defined as the

a. Interaction product of genotype with environment

b. Sum total of hereditary material present in a species

c. Degree of resemblance between the original and the selected plants

d. Proportion of phenotypic variability which is due to heredity

Developed by: [Mindsprite Solutions](#)