

Examrace

Competitive Exams: Agriculture MCQs (Practice_Test 2 of 56)

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1. Match List I (Soil order) with List II (Diagnostic properties) and select the correct answer:

List-I	List-II
A. Vertisols	1. Aridic or dr or saline
B. Entisols	2. Cracking or swell-rink clays
C. Aridisols	3. No distinctive horizons
D. Alfisols	4. Presence of argillic horizon

A B C D

a. 2 3 1 4

b. 3 2 1 4

c. 4 1 2 3

d. 2 3 4 1

2. Consider the following statements: A soil series has similar

- a. Profile character
- b. Horizon thickness
- c. Soil structure

Which of the above statements are correct?

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

3. Limestone belongs to
- Igneous rocks
 - Sedimentary rocks
 - Metamorphic rocks
 - Glacial deposits
4. 2: 1: 1 type of clay mineral consists of
- Two layer of silica tetrahedron, one layer of alumina octahedron and one layer of magnesium octahedron called brucite
 - Two layer of alumina octahedron, one layer of silica tetrahedron and one layer of magnesium octahedron called brucite
 - Two layer of magnesium octahedron called brucite, one layer of silica tetrahedron and one layer of alumina octahedron
 - Two layer of silica tetrahedron, one layer of alumina octahedron and one layer of organic matter
5. Which one of the following anions is highly absorbed in acid soils?
- Chlorides
 - Nitrates
 - Sulphates
 - Phosphates
6. Consider the following situations:
- Presence of hydrogen ions (H^+) in the soil
 - Presence of active aluminum ions (Al^{+3}) in the soil
 - Conversion of soil phosphorus to insoluble, complex phosphates of iron and aluminum
 - Adverse effect on the growth and activities of the beneficial microorganisms like nitrifiers and symbiotic bacteria

Which of the above produce harmful effects of soil activity on many crops?

- 1,2 and 3
- 2,3 and 4
- 1,3 and 4
- 1,2 and 4

7. Negative charge on silicate clays may be on account of and/or dependent on
- None
 - Exposed crystal edges and isomorphous substitution and pH
 - pH, exposed crystal edges and isomorphous substitution
 - Exposed crystal edges and pH
8. The reactions show below: $\text{CaSiO}_3 + 2\text{HOH} + \text{H}_2\text{SiO}_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{KAlSi}_3\text{O}_8 + \text{HOH} + \text{HAlSi}_3\text{O}_8 + \text{KOH}$ Ar examples of
- Hydration
 - Hydrolysis
 - Oxidation
 - Solution
9. A soil with a Cation Exchange Capacity of 30 me per 100 grams soil contains the following amount of exchangeable cations per 20 grams soil (in milli equivalents)
- Calcium 2.00
 - Magnesium 1.00
 - Potassium 0.75
 - Sodium 0.25
 - Total 4.00

Based on this data, the percentage base saturation of the soil will wor out to

- 13.33
 - 34.00
 - 47.33
 - 66.66
10. Consider the following statements:
- Flocculation and aggregation are synonymous
 - Cation like sodium deflocculates the clay
 - Soil devoid of organic matter does not get readily aggregated

Which of the above statements are correct?

- 1 and 2
- 1 and 3

c. 2 and 3

d. 1,2 and 3

11. Match List I (Names of laws/equations) with List II (Definition) and select the correct answer:

List-I	List-II
A. Bragg's Law	1. Governs the rate of settling of spherical particles in a viscous medium
B. Coulomb's Law	2. States that the attraction between two neighboring regions of gas will depend on the number of molecules in the region.
C. Stokes Law	3. The force of attraction between two ions in a given dielectric varies inversely as the square of the distance between them
D. Vander waal's equation	4. The force of attraction of liquid phase for example, water on the surface of the solid phase eg soil particles
	5. States that a crystal will reflect a beam of X-rays with maximum intensity if the coefficient (n) of the wavelength of the X-rays used is a whole number

A B C D

a. 1 4 5 2

b. 5 3 2 4

c. 4 2 1 3

d. 5 3 1 2

12. Consider the following data: Effect of a given increase of a cation in the soil on plant composition Mill equivalents of cations per 100 grams of dr plant tissue of bluegrass
Added to soil

- o Ca²⁺ + Mg²⁺ + K + Total
- o Dasal 35 42 54 181
- o Ca²⁺ + 41 37 53 131
- o Mg²⁺ + 30 63 50 143
- o K + 23 24 95 142

Consider the following inferences drawn on the basis this stable:

Increase in the quantity of a nutrient applied to the soil.

- a. Increases the quantity of the nutrient in the plant grown in the soil
- b. Decreases the quantities of other nutrients in the plant
- c. Decreases the quantities of other nutrients in the plant in the same proportion in each of these other nutrients

Which of the above inferences are valid?

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

13. In alkaline soils, loss of nitrogen as gaseous NH_3 is known as

- a. Denitrification
- b. Volatilization
- c. Ammonification
- d. Nitrate reduction

14. In water-logged soils, different compounds/ions undergo reduction from the oxidized state to the reduced state. The correct order of the given species (compounds/ions) in the sequence of first to be reduced to the last to be reduced in a water-gged soil is

- a. $2 \ 3 \ 4 \ 2 \ \text{NO}^2, \text{SO}^{\wedge}, \text{Fe}_3 + \text{MnO}$
- b. $2 \ 4 \ 3 \ 2 \ \text{SO}^2, \text{NO}^2, \text{MnO}, \text{Fe}_3 +$
- c. $2 \ 2 \ 3 \ 4 \ \text{Fe}_3 + \text{MnO}, \text{NO}^2, \text{SO}^2$
- d. $3 \ 2 \ 3 \ 2 \ 4 \ \text{NO}^2, \text{MnO}, \text{Fe} + , \text{SO}^2$

15. Consider the following components:

- a. Cellulose
- b. Crude proteins
- c. Hemicelluloses
- d. Oils, fats, lignin, waxes
- e. Sugars, starch

These components in the raw organic matter undergo decomposition in the soil due to the activity of soil micro-organisms under favorable conditions. The correct sequence of these components in terms of the most easily decomposed to least easily decomposed is

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

16. Consider the following statements:

- a. Manures contain all the nutrients essential for the growth of plants
- b. Manures exert desirable effects on the physical conditions of the soil
- c. Manures cause detrimental effects on the activities of soil micro-organisms

Which of the above statements are correct?

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

17. The prevalence of phosphate ion changes with pH. The correct sequence of the prevalence of the given phosphate ions (with increasing pH) is

- a. $2 \text{ } 3 \text{ } 2 \text{ } 4 \text{ } 4 \text{ } 4 \text{ } \text{H PO}^2, \text{HPO}^2, \text{PO}^2$
- b. $2 \text{ } 3 \text{ } 4 \text{ } 2 \text{ } 4 \text{ } 4 \text{ } \text{HPO}^2, \text{H PO}^2, \text{PO}^2$
- c. $3 \text{ } 2 \text{ } 2 \text{ } 4 \text{ } 4 \text{ } 4 \text{ } \text{H PO}^2, \text{PO}^2, \text{HPO}^2$
- d. $3 \text{ } 2 \text{ } 4 \text{ } 4 \text{ } 2 \text{ } 4 \text{ } \text{PO}^2, \text{HPO}^2, \text{H PO}^2$

18. Which one of the biofertilizer is used both for nitrogen fixation and as an organic manure?

- a. Blue green algae
- b. rhizobium
- c. Azolla
- d. Azotobacter

19. What is the exact location of the enzyme 'nitrate reductase' in the plant cell?

- a. Chloroplast

- b. Cytosol
 - c. Mitochondria
 - d. Peroxisome
20. Which one of the following ions moves out of the guard cells of the stomata along the electrochemical gradient during closure of stomata?
- a. Calcium
 - b. Magnesium
 - c. Potassium
 - d. Manganese
21. 'Exanthema' of fruit trees characterized by gummosis, Dieback and glossy brownish blotches on leaves and fruits are due to the deficiency of
- a. Boron
 - b. Cobalt
 - c. Zinc
 - d. Copper
22. Consider the following compounds:
- a. Isocitric acid
 - b. Alpha-glutoglutaric acid
 - c. Carbon dioxide
 - d. Ethyl alcohol
- Compounds produced in plant cells maintained under anaerobic conditions include
- a. 1 and 2
 - b. 2 and 3
 - c. 3 and 4
 - d. 1 and 4
23. Consider the following findings:
- a. Photoperiodism is dependent on the duration of light available to the plants in daily cycle
 - b. Photoperiodic stimulus is graft transmissible
 - c. Photoperiodic stimulus is perceived by mature leaves

d. Isolation of phytochrome which exists in two forms, one absorbing at a wavelength of 660 nm and the other 730 nm

Which of these findings relate to the development of phytochrome concept in the induction of flowering in plants?

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

24. Consider the following processes:

- a. Absorption of water by micr Pyle and swelling of seeds embryo sending radical downwar and plumule upward breaking of softened testa
- b. Hypogeal movement of cotyledons

The correct sequence of these process in the germination of gram seeds is

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

25. Polygene affecting the same trait, with each allele enhancing the phenotype is termed as

- a. Amnion
- b. Alkaptonuria
- c. Allosteric effect
- d. Additive factors

26. Match List I (Institute/organization) with List II (Crop/activity) and select the correct answer:

List-I	List-II
A. IPGrI	1. Genetic resource
B. IrrI	2. Lentil
C. ICARDA	3. raddy
D. CIMMYT	4. Wheat

A B C D

a. 3 1 4 2

b. 1 3 4 2

c. 3 1 2 4

d. 1 3 2 4

27. A system of breeding in which a number of genotypes which have been progenytested in respect of same character or group of character are composed to form a variety is termed as

a. Inbreeding

b. Line breeding

c. Cross breeding

d. Pedigree breeding

28. The condition under which a polyploidy is recessive in all chromosomes with respect to a particular gene is called

a. Heterocaryosis

b. Metaxenia

c. Hermaphroditism

d. Nulliplex

29. Consider the following unique advantages which the synthetic varieties offer in comparison to hybrid varieties:

a. Exploitation of general combining ability and specific combining ability

b. Feasible means of utilising heterosis where pollination control is difficult

c. Seed production not being a skilled operation like hybrid, hence is economical

d. Wider genetic base to face variable environment

The advantages which make synthetic varieties commercially viable include

a. 1,3 and 4

b. 1,2 and 3

c. 2,3 and 4

d. 1,2, 3 and 4

30. The most accurate estimate of the yield of a double cross can be made from the mean yields of the
- a. Two double crosses
 - b. Three three-y crosses
 - c. Four parental single crosses
 - d. Four non-rental single crosses

Frequently Asked Questions (FAQs)

Answer with details

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1 Answer

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