

## Examrace

# Competitive Exams: Agriculture MCQs (Practice\_Test 10 of 56)

Doorsteptutor material for UGC Public-Administration is prepared by world's top subject experts: Get [detailed illustrated notes covering entire syllabus](#): point-by-point for high retention.

1. Consider the following statements: Yield advantage in an intercropping system occur due to the development of
  - a. Temporal complementarily
  - b. Spatial complementarily
  - c. Without any complementarily
  - d. Competitive relationship

Which of these statements are correct?

- a. 1 and 3
  - b. 2 and 4
  - c. 3 and 4
  - d. 1 and 2
2. The yield advantage in an intercropping system can be measured by
    - a. Competition coefficient
    - b. Land equivalent ratio
    - c. Allelopathy index
    - d. Durability coefficient
  3. At field capacity the water is held at
    - a. 0.033 MPa
    - b. 0.30 MPa
    - c. 3.00 MPa
    - d. 30.00 MPa

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

--	--

List-I (Concept)	List-II (Scientists)
A. Q/I relationship of K	1. Sorenson
B. ratio/squar root law	2. Beckett
C. A value	3. Schofield
D. Soil reaction	4. Fried and Dean

**A B C D**

- a. 2 3 4 1
- b. 2 3 1 4
- c. 3 2 4 1
- d. 3 2 1 4
5. Which one of the following has organic for of sulphur?
- a. Purine
- b. Cysteine
- c. rNA
- d. Phytin
6. Which one of the following is a manganese containing mineral?
- a. Magnetite
- b. Tourmaline
- c. Apatite
- d. Pyrolusite
7. Which one of the following sets shows the correct soil order in sequence of increasing?
- a. Entisol, mollisol, alfisol, ultisol
- b. Entisol, mollisol, ultisol, alfisol
- c. Ultisol, alfisol, mollisol, entisol
- d. Alfisol, mollisol, entisol, ultisol

8. Which one of the following pair is NOT correctly matched?

- a. Cyan bacterial culture—Nitrogen nutrition
- b. VAM culture—Phosphorus nutrition
- c. Rhizobial culture—Nitrogen nutrition
- d. Azospirillum culture—Phosphorus nutrition

9. Humic acid isolated from soils is

- a. Aromatic with high molecular weight
- b. Aromatic with low molecular weight
- c. Aliphatic with high molecular weight
- d. Aliphatic with low molecular weight

10. The base saturation percentage of a soil containing 7.0 cmol p + kg of Ca<sup>2+</sup>, 1.0 cmol p + kg- of Mg<sup>2+</sup>, 0.25cmol p + kg-of K<sup>+</sup>, 0.75 cmol p + kg-of H<sup>+</sup> and 1.0 cmol p + kg-1 of Al<sup>3+</sup>, will be

- a. 82.5
- b. 90
- c. 92.5
- d. 100

11. Consider the following clay minerals:

- a. Montmorillonite
- b. Illite
- c. Kaolinite
- d. Vermiculite

The arrangement of these clay minerals in descending order in terms of their CEC would be

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

12. The process of formation of nitrogen and nitrous oxide gases from ammonia cal fertilizer in soils is known as

- a. Ammonification
  - b. Nitrification
  - c. Denitrification
  - d. Mineralisation
13. Which one of the following micronutrient elements is concerned with the regulation of oxidation-reduction potential within the?
- a. Boron
  - b. Copper
  - c. Manganese
  - d. Zinc
14. Ions are held on clay by a process called
- a. Adhesion
  - b. Cohesion
  - c. Adsorption
  - d. Coagulation
15. Which one of the following is NOT a tracer oriented technique in soil fertility evaluation methods?
- a. K value
  - b. A value
  - c. E value
  - d. L value
16. Dolomite is
- a.  $\text{CaCO}_3$
  - b.  $\text{MgSO}_4$
  - c.  $\text{Ca}(\text{OH})_2$
  - d.  $\text{MgCO}_3\text{CaCO}_3$
17. Match List I with List II and select the correct answer:

List-I (Available nutrients)	List-II (Method of extraction/estimation)

A. Phosphorus	1. Alkali9ne KMnO4
B. Sulphur	2. 0.5m NaHCO3
C. Nitrogen	3. DTPA
D. Manganese	4. 0.15% CaCl2

**A B C D**

- a. 2 3 1 4
- b. 1 4 2 3
- c. 2 4 1 3
- d. 1 3 2 4
8. Which one of the following elements is oxidized by Thiobacillus thiooxidans?
- a. Sulphur
- b. Nitrogen
- c. Copper
- d. Iron
9. The organic residues with wider C: N ratios as compared to narrow C: N ratios are decomposed at
- a. Faster rate
- b. Slow rate
- c. Equal rate
- d. Faster rate followed by slow rate
10. Which one of the following pair of plant nutrients other than phosphorus are present in super phosphate?
- a. Calcium and iron
- b. Sulphur and nitrogen
- c. Calcium and sulphur
- d. Calcium and potassium

21. Salts in the xylem ducts of the root are carried upwar with

- a. Photosynthesis
- b. Transpiration stream
- c. respiration
- d. Guttation

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

List-I (Micronutrients)	List-II (Deficiency symptoms)
A. Copper	1. Heart rot of a sugar beet
B. Calcium	2. Exanthema
C. Zinc	3. Little leaf in citrus
D. Boron	4. Blossom end rot in tomato

**A B C D**

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

23. Consider the following compounds:

- a. Starch
- b. Glucose
- c. Sucrose
- d. raffinose

Arrangement of these compounds in terms of increasing order of monomer is

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

d. 3, 4, 2, 1

14. The term oxidative phosphorylation explains

- a. Oxidation of phosphate bonds during release of energy
- b. Synthesis of ATP during dark respiration in mitochondria
- c. Synthesis of ATP during light reaction in chloroplast
- d. Oxidation of carbohydrate in cytosol for the synthesis of NADPH

15. Which one of the following substances has r value equal to one?

- a. Fats
- b. Carbohydrate
- c. Protein
- d. Fatty acids

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

List-I (Scientist)	List-II (Contribution)
A. A Peter Mitchell	1. Phytochrome
B. Hatch and Slack	2. Balanced nutrient solution
C. Borthwick and Hendricks	3. ATP synthesis
D. Hoagland	4. C4 Pathway

**A B C D**

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

17. Extent of stomatal opening is related to the concentration of essential element in the guard cell. The element in question is

- a. Nitrogen

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

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

List-I (Scientist)	List-II (Contribution)
A. Hugo de Vries	1. Transposable elements
B. W L Johannsen	2. Cistron
C. B McClintock	3. Mutation
D. S Benzer	4. Pur line

**A B C D**

- a. 4 3 1 2
  - b. 3 4 1 2
  - c. 4 3 2 1
  - d. 3 4 2 1
9. In garden pea. Yellow seed colour (Y) is dominant over the green seed colour (y) and the round seed shape (R) is dominant over the wrinkled seed shape (r). These two character pair segregate independently. 'Yellow wrinkled X yellow wrinkled' gave 59 yellow wrinkled and 21 green wrinkled offspring. The genotype of these two parents will be
- a. yyr and yyrr
  - b. Yyr and yyrr
  - c. Yyr and Yyrr
  - d. Yyr and Yyrr
10. Duplicate gene interaction gives a ratio of
- a. 15: 1
  - b. 13: 3
  - c. 9: 3.4



d. 9: 7

Developed by: [Mindsprite Solutions](#)