

1. Hybrid rice for commercial production was first evolved in–
(A) India (B) China ✓
(C) Japan (D) USA
2. If the rate of application per hectare is 3.00 kg a.i., the quantity of simazine WP (80% a.i.) required to be sprayed in 0.20 hectare area would be
(A) 0.50 kg (B) 0.75 kg ✓
(C) 1.25 kg (D) 1.87 kg
3. Which one of the following has organic form of sulphur ?
(A) Purine (B) Cysteine ✓
(C) RNA (D) Phytin
4. Which form of nitrogen is available in urea?
(A) Ammonical (B) Amide ✓
(C) Nitrite (D) Nitrate
5. Application of potash increases–
(A) Disease resistance in plants ✓ (B) Resistance for water logging
(C) Frost resistance in plants (D) None of these
6. Which of these herbicides is used to control weeds in zero tillage ?
(A) Pendimethalin (B) Fluchloralin
(C) Paraquat ✓ (D) Alachlor
7. The crown roots in wheat appear
(A) Above soil surface (B) Below soil surface but above seed ✓
(C) Below soil surface and below seed (D) Below seed
8. Which vegetable oil is good for heart patient?
(A) Groundnut oil (B) Mustard oil
(C) Soybean oil (D) Sunflower oil ✓
9. UPAS 120 is a variety of–
(A) Wheat (B) Pigeon pea ✓
(C) Barley (D) Urd

10. Among the following, which plants- nutrient elements reaches roots by the process of diffusion ?

- (A) Phosphorus ✓ (B) Calcium
(C) Nitrogen (D) Potassium

11. The roots of which crop plant release allelopathic chemicals into the soil that inhibit the germination of succeeding crop?

- (A) Sorghum (B) Sunflower ✓
(C) Maize (D) Red gram

12. Plant food manufactured by the process of photosynthesis in the presence of a nutrient in chlorophyll is—

- (A) Ca (B) Mg ✓
(C) Iron (D) Boron

13. During germination radical and plumule develop from—

- (A) Embryo ✓ (B) Endosperm
(C) Hilum (D) Seed coat

14. In which of the following, composite and synthetic cultivars are used ?

- (A) Rice (B) Wheat
(C) Maize ✓ (D) Cotton

15. Which cation has low adsorption capacity on clay?

- (A) H (B) Ca
(C) Fe (D) Na ✓

16. PDM 11 is a variety of—

- (A) Urd (B) Arhar
(C) Moong ✓ (D) Lobia

17. All the grain legumes have a high photo respiration because of—

- (A) C3 mechanism ✓ (B) More vegetative growth
(C) Indeterminate (D) Pod position

18. Soil structure is improved by application of—

- (A) Urea (B) Super phosphate ✓
(C) Muriate of potash (D) Zinc sulphate

19. Organic carbon is a measure of—

- (A) Available N in soil ✓ (B) Available P in soil
(C) Available K in soil (D) Available Mg in soil

20. Hydraulic conductivity of soil is very low in case of—

- (A) Acid soils (B) Saline soils
(C) Loam soils (D) Alkali soils ✓

21. Approximate weight of surface 15 cm soil of one hectare field is—

- (A) 1×10^6 kg (B) 1.5×10^6 kg
(C) 2×10^6 kg (D) 2.24×10^6 kg ✓

22. Tilt is related to—

- (A) Shape of the soil aggregates (B) Size distribution of the soil aggregates
(C) Arrangement of the soil aggregates (D) All of these ✓

23. Seed work board is required for—

- (A) Viability test of seed (B) Germination test of seed
(C) Purity test of seed (D) Blending of seed ✓

24. Repetitive growing of same sole crop on the same field is known as

- (A) Mono Cropping ✓ (B) Sequential Cropping
(C) Relay Cropping (D) Multiple Cropping

25. Which crop of the following has the double symbiotic relationship with nitrogen fixing bacteria ?

- (A) *Phaseolus vulgaris* (B) *Cajanus cajan*
(C) *Sesbania rostrata* ✓ (D) *Glycine max*

26. Which one of the following crops causes maximum reduction in soil alkalinity ?

- (A) Paddy (B) Maize
(C) Cowpea (D) Wheat

27. Zero tillage system was first used successfully in 1950 in pasture renovation in—

- (A) Germany (B) Japan
(C) United Kingdom (D) USA ✓

28. An annual weed rice field is–
(A) Anagallis arvensis (B) Echinochloa crusgalli ✓
(C) Amaranthus Spinosa (D) Phalaris minor
29. Flow of water in saturated soil is described by–
(A) Poiseuille's law (B) Darcy's law
(C) Fick's law (D) Both (A) and (B) ✓
30. Seed rate of transplanted basmati rice is–
(A) 25-30 kg/ha (B) 35-40 kg/ha ✓
(C) 45-60 kg/ha (D) 55-70 kg/ha
31. Mat type nursery is related to–
(A) Tobacco crop (B) Paddy crop ✓
(C) Onion crop (D) Brinjal
32. The current per capita forest area in India is–
(A) 0.11 ha (B) 0.09 ha
(C) 0.07 ha ✓ (D) 0.05 ha
33. The most concentrated fertilizer used for nutrient supply is–
(A) Urea (B) OAP
(C) Anhydrous ammonia ✓ (D) SSP
34. Which one of the following is not narrow leaved weeds ?
(A) Cynodon dactylon (B) Cyperus rotundus
(C) Setaria glauca (D) Melilotus indica ✓
35. Rancidity in sunflower oil is caused by
(A) Reduction (B) Oxidation ✓
(C) Esterification (D) Nitrification
36. First hybrid maize Ganga-1 was developed in India in–
(A) 1957 (B) 1961 ✓
(C) 1964 (D) 1965

37. Which one of the following is a hybrid variety of maize ?
(A) Vikram (B) Amber
(C) Kissan (D) Sangam ✓
38. Test weight of sorghum is
(A) 20-25 gram (B) 25-30 gram ✓
(C) 30-35 gram (D) 70-72 gram
39. CSH-1 was first sorghum hybrid released in
(A) 1961 (B) 1962
(C) 1963 (D) 1964 ✓
40. Required plant population of gram may be obtained by using a seed rate of (kg/ha)–
(A) 50-75 (B) 75 -100 ✓
(C) 90 -110 (D) 100 -125
41. The optimum seed rate for pigeonpea crop is–
(A) 10-12 kg/ha (B) 12-15 kg/ha
(C) 15-17 kg/ha (D) 20-25 kg/ha
42. The trailing or spreading type of groundnut include–
(A) *Arachis hypogea* subsp. *fastigiata*
(B) *Arachis lujpogea* subsp. *procumbens* ✓
(C) Both (A) and (B) (D) None of these
43. Linseed belongs to family–
(A) Liliaceae (B) Linaceae ✓
(C) Tiliaceae (D) Pedaliaceae
44. Weight of one cotton bale is equal to–
(A) 160 kg (B) 170 kg ✓
(C) 180 kg (D) 178 kg
45. The optimum temperature for retting of sannhemp is–
(A) 14 -21°C (B) 21-27°C ✓
(C) 30-34°C ✓ (D) 35-38°C

46. Pusa Sadabhar, Pusa Mausmi and Pusa Naubahar are the improved varieties of–

- (A) Oat (B) Berseem
- (C) Lucerne (D) Guar ✓

47. Sugarbeet matures in–

- (A) April/May ✓ (B) June/July
- (C) September/October (D) January/February

48. The optimum seed rate for sunflower is (kg/ha)–

- (A) 8-10 ✓ (B) 10-15
- (C) 18 - 20 (D) 30 - 35

49. Blackgram is originated in–

- (A) India ✓ (B) Tropical America
- (C) China (D) Indonesia

50. The use of tensiometer is confined up to matric potential of–

- (A) - 0.8 bar ✓ (B) - 0.6 bar
- (C) - 0.4 bar (D) - 0.2 bar

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