

Plants, Microbes and Human Welfare

1. One of the following cannot be a trait for plant breeding []
1. Increased tolerance to insect pests.
 2. Increased tolerance to herbicides.
 3. Increased tolerance to fertilizers.
 3. Increased tolerance to salinity
2. Regarding the main steps given below in breeding a new variety of a crop []
- A. Cross hybridization among the selected parents
 - B. Evaluation and selection of parents
 - C. Collection of variability
 - D. Selecting and testing superior recombinants.
1. A precedes B
 2. C followed by B
 3. D followed by C
 4. D preceded by B
3. The most desired character in the parents is []
1. Variability in their alleles
 2. Few dominant traits in both parents
 3. One parent is recessive
 4. Homozygous dominant for as many traits as possible
4. **Most desired character in the new cultivar** []
1. Homozygosity for dominant character
 2. Heterozygous for all traits
 3. Homozygous recessive for all characters
 4. Homozygous recessive for few traits.
5. Assertion (A): Genetic variability is the root any breeding programme. []
Reason(R): Variability provides scope to select required traits.
- 1) Both A and R are correct and R is the correct explanation of A.
 - 2) Both A and R are correct but R is not the correct explanation of A.
 - 3) A is correct, R is false
 - 4) A is false, R is true
6. 'Sonalika' is a variety of []
1. Maize
 2. Wheat
 3. Paddy
 4. Cowpea
7. True statement regarding achievement of Plant Breeding in India []
1. Wheat resistant to water stress is developed
 2. Semi-dwarf variety IR-8 developed.
 3. Paddy variety of 'Jaya' & 'Ratna' were developed.
 4. A better Sugarcane is introduced into South India.

8. **Disease of Wheat** []
 1. Brown rust 2. Red rot 3. Late blight 4. Black rot
9. **Dependence on the use of fungicides increased with** []
 A. Brown rust B. Red rot C. Late Blight D. Black rot
 1. A & B 2. B & C 3. A, B & C 4. C & D
10. **How many minimum crossings are required to get a plant of genotype AABB, if two plants with AAbb and aaBB genotypes are available in a monoecious species?** []
 1. One 2. Two 3. Three 4. Five
11. **Resistance of the plant depends on** []
 1. Genetic constitution of the host 2. Environment
 3. Genetic constituent of the pathogen 4. All the above
12. **'Pusa komal' is resistant to** []
 1. Leaf curl 2. Bacterial blight 3. Aphids 4. Rust
13. **'Germ plasm' is** []
 1. Imported variety
 2. Genes present in the nucleus
 3. Collection of entire alleles of plant in the form of seed.
 4. Collection of different types of seeds.
14. **Resistant to yellow mosaic virus and powdery mildew is induced in** []
 1. Chilli 2. Green gram 3. Flat bean 4. Mustard
15. **Cauliflower variety that resists Black rot and Curl blight is** []
 1. Pusa Swarnam 2. Pusa Gourav 3. Pusa shubra 4. Pusa Sadabahar.
16. **'Parbhani kranthi' variety of bhindi is developed which show resistance to** []
 1. Virus 2. Insects 3. Fungi 4. Bacteria
17. **Maize variety resistant to stem borer shows** []
 1. High content of nitrogen 2. Low sugar
 3. Low Aspartic acid 4. High Malic acid
18. **'Bio fortification' means** []
 1. Guarding the crop plant against diseases.
 2. Technique in plant breeding
 3. Increasing the resistance of the plant against diseases
 4. Increasing the nutritional or food value of the plant.

19. 'Atlas 66' is a []
 1. Maize variety with high starch
 2. Paddy variety with disease resistance
 3. Wheat variety with high protein
 4. Mustard with high oil content.
20. Both vitamin C and Fe and Ca enriched plant is []
 1. *Chenopodium* 2. Spinach 3. Tomato 4. Mustard
21. Assertion (A): Shift from grain to meat diets creates more demand for cereals. []
 Reason(R): Animal farming increases cereal demand to feed animals.
 1) Both A and R are correct and R is the correct explanation of A.
 2) Both A and R are correct but R is not the correct explanation of A.
 3) A is correct, R is false
 4) A is false, R is true
22. *Spirulina* is []
 1. Unicellular 2. Multi cellular filament 3. Prokaryote 4. A bacterium
23. For culturing *Spirulina* the most important requirement is []
 1. Starch 2. Molasses 3. Sewage 4. Light
24. True statement regarding SCP is []
 1. Mushrooms are microbes
 2. *Spirulina* is rich in minerals, fats carbohydrates etc
 3. SCP is produced for its by-products.
 4. Torula yeast is *Saccharomyces*.
25. Temperature in autoclave is []
 1) 120⁰C 2. 121⁰C 3. 100⁰C 4. 15⁰C.
26. Somatic embryos are useful in []
 1. Synthesis of Artificial seeds 2. Organogenesis
 3. For callus development 4. Seed production
27. Incubation period for tissue culture []
 1. One week 2) 3-4 weeks 3) 5 weeks 4) 2 days.
28. For organogenesis the important ingredient in the medium is. []
 1. Cytokinin 2. Auxin
 3. Both Cytokinin and Auxin 4. More carbon source
29. Virus free plant developed in []
 1. Apple 2. Tomato 3. Banana 4. Bhindi

- 30. Identify the non-fermented food product** []
 1. Toddy 2. Cheese 3. Curd 4. Baker's yeast.
- 31. Which disease can be cured by antibiotic** []
 1. Whooping cough 2. Polio 3. Sars 4. HIV
- 32. 'Clot buster' is** []
 1. *Streptomyces* 2. Streptokinase 3. *Saccharomyces* 4. *Chaetomium*
- 33. The combustible gas in gobar gas is** []
 1. Methane 2. Ethane 3. Acetylene 4. Methane +CO₂
- 34. Fermented beverage product without distillation is** []
 1. Whisky 2. Beer 3. Brandy 4. Rum
- 35. Citric acid can be extracted from** []
 1. *Acetobacter* 2. *Lactobacillus* 3. *Trichoderma* 4. *Aspergillus*.
- 36. The effluent from the primary effluent tank contains** []
 1. Fungi 2. Anaerobes 3. Organic matter 4. Clear fluid
- 37. Removing pollutants from soil is** []
 1. Eutrophication 2. Bio remediation 3. Biofortification 4. Biodegradation
- 38. Baculovirus attack** []
 1. Fungi 2. Bacterium 3. Nematodes 4. Insects
- 39. Not a bio pesticide** []
 1. *Bacillus thuringiensis* 2. *Trichoderma*
 3. *Azotobacter* 4. Nucleopolyhedrovirus
- 40. Increase in BOD of water indicates** []
 1. Water is polluted 2. More aerobic bacteria in water
 3. More organic matter is present 4. More anaerobes are present

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
3	2	4	1	1	2	3	1	3	3	1	2	3	2	3	1	2	4	3	1
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	3	4	1	2	1	2	3	3	4	1	2	1	2	4	3	2	4	3	2