

Breeding for Crop Improvement

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1. Which of the following is /are the aspects of crop improvement?
 - a) Selection
 - b) Hybridization
 - c) Polyploid breeding
 - d) All of these
2. Removal of stamens in an inter-sexual flower before they dehisce is called
 - a) Protandry
 - b) Emasculation
 - c) Inducing male sterility
 - d) None of these
3. The superiority of the hybrid over either parent in one or more traits is called
 - a) Hybrid vigour
 - b) Hybridisation
 - c) Polyploidy
 - d) None of these
4. Modern bread wheat *Triticum aestivum* is
 - a) Hexaploid
 - b) Triploid
 - c) Diploid
 - d) Octaploid
5. Cotton fibres are made of
 - a) Protein
 - b) Starch
 - c) Cellulose
 - d) Hemi-cellulose
6. Paddy is the term used for
 - a) Stem soft after extraction of sugary sap
 - b) Rice grains without husk
 - c) Rice grains with husk
 - d) Millet
7. Jute fibres are
 - a) Xylem fibres
 - b) Surface fibres
 - c) Leaf fibres
 - d) Bast fibres
8. *Cicer arietinum* is called
 - a) Black gram
 - b) Green gram
 - c) Bengal gram
 - d) Dew gram
9. The first wheat variety that caused green revolution in India was developed by M.S. Swaminathan by irradiating Sonara-64 variety with gamma rays. The variety was
 - a) Pusa
 - b) Sonalika
 - c) Kalyan- Sona
 - d) Sharbati Sonara
10. Sugarcane Breeding Institute is located at
 - a) Coimbatore
 - b) Lucknow
 - c) Mysore
 - d) Ludhiana

11. To obtain disease-free plants through tissue culture techniques, the best method is

- a) Anther Culture
- b) Meristem Culture
- c) Embryo Culture
- d) Protoplast Culture

12. Millets differ from major cereals in being

- a) Smaller and rounded
- b) Larger and softer
- c) With better nutrition
- d) More palatable

13. Which provides the stable food for mankind?

- a) Cereals
- b) Legumes
- c) Millets
- d) All of the Above

14. Radioactive isotopes producing gamma rays are

- a) Nitrous acid
- b) Cobalt-60
- c) Ethyl Methane Sulphonate
- d) Nitrogen -15

15. Protoplast from different varieties or species can be fused with the help of

- a) Electro fusion
- b) Poly Ethyl Glycol (PEG)
- c) Sodium Chloride
- d) Both (a) & (b)

16. In which crops is the method of mass selection applied?

- a) All cross pollinated
- b) All self pollinated
- c) Both self and cross pollinated
- d) Potato and Sugarcane

17. An important medicine for Bronchitis is obtained from

- a) *Adhatoda vesica*
- b) *Cucurma longa*
- c) *Hemidesmus indicus*
- d) *Rauwolfia serpentina*

18. The plant that made Hugo de Vries famous is

- a) *Antirrhinum majus*
- b) *Lathyrus odratus*
- c) *Oenothera lamarckiana*
- d) *Pisum sativum*

19. One of the plants introduced from the old world to the new world is

- a) Potato
- b) Rice
- c) Sweet potato
- d) Maize

20. Which of the following is rich in carbohydrates, proteins and fats?

- a) Gram
- b) Groundnut
- c) Wheat
- d) Mango

Answers

1.b	2.b	3.a	4.a	5.c	6.c	7.d	8.c
9.d	10.a	11.b	12.a	13.a	14.b	15.d	16.c
17.a	18.c	19.b	20.a				



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