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Department of Botany.

MCQ's Semester V

(Plant breeding and seed technology)

PAPER NO: XVI B

- 1) Plant breeding is science known for_____
(a) Crop Improvement (b) food security (c) disease resistance (d) none of the all
- 2) Domestication of plant species_____
(a) introduction (b) plant species under human management (c) heterogeneous (d) none of the above
- 3) Crossing between different parents is known as
(a) Hybridization (b) Selfing (c) isogamy (d) Heterogamy
- 4) Crossing between two different species is known as
(a) Intergeneric (b) inter specific (c) intra specific (d) none of the above
- 5) Bearing of two different gametes is called as_____
(a) Isogametes (b) Heterogamous (c) Isogamy (d) none of the above
- 6) Self pollinated species is also known as
(a) allogamous (b) clistogamy (c) chasogamy (d) autogamous
- 7) Self pollinated homozygous plant is a progeny of_____
(a) Female parent (b) pure line (c) inbred (d) hybrid
- 8) Method of breeding is not appropriate for cross pollinated crops
(a) Mass selection (b) backcross method (c) heterosis breeding (d) recurrent selection
- 9) _____Is an ancient method of crop improvement.
(a) Selection (b) introduction (c) hybridization (d) mutagenesis
- 10) _____Is the oldest selection methods for crop improvement
(a) Mass selection (b) pure line selection (c) pedigree selection (d) recurrent selection
- 11) Pure line is a variety_____
(a) Heterozygous (b) homozygous (c) Heterozygous & homozygous (d) none of the above
- 12) Clonal selection is practiced in_____
(a) Self pollinated crop (b) cross pollinated (c) vegetative propagated crop (d) none of all
- 13) Pedigree method of hybridization is followed in
(a) Cross pollinated (b) Self pollinated (c) often cross pollinated (d) none of all

- 14) Adaptation of introduced plant is known as _____
(a) Acclimatization (b) domestication (c) introduction (d) adjustant
- 15) Mutation is _____
(a) Sudden change (b) heritable change (c) non heritable change (d) all of the above
- 16) Emasculation is a technique in which _____
(a) Female reproductive part is removed (b) male reproductive part is removed (c) nothing is removed (d) all of the above
- 17) Intergenic hybridization
(a) Same species (b) different species (c) different genus (d) same genus
- 18) Self incompatibility is useful in
(a) Selfing (b) crossing (c) hybridization (d) all of the above
- 19) Inbreeding depression is observed in
(a) Cross pollinated (b) self pollinated (c) often self pollinated (d) none of the above
- 20) Male sterility is useful technique for
(a) Seed production (b) crossing over (c) bagging (d) tagging
- 21) In Double cross _____
(a) One parent (b) two parent (c) four parent (d) three parent
- 22) Anthesis is phenomena in _____
(a) Gynoeceum (b) anthers (c) stamens (d) stigma
- 23) Bulk selection method is used in _____
(a) Cross pollinated crop (b) self pollinated crop (c) vegetative propagated crop (d) none of all.
- 24) In three way crosses _____
(a) One parent (b) one single cross and inbred (c) two inbreds (d) four inbreds
- 25) GMS _____
(a) cytoplasmic male sterile (b) genetic male sterile (c) cytoplasmic genetic male sterile (d) all of the above
- 26) Protoandry is _____
(a) Female organ mature first (b) male organ mature first (c) both organ mature (d) none of the above
- 27) Heterosis is _____
(a) Superior the parent (b) increased vigour (c) Balance heterosis (d) no Superiority

- 28) Genetically most pure seed _____
(a) Nucleus seed (b) registered seed (c) improved seed (d) commercial seed
- 29) Back cross is also known as
(a) Intra specific hybridization (b) introgressive hybridization (c) intergeneric hybridization
(d) none of the above
- 30) Certified seed is progeny of _____
(a) Improved seed (b) foundation seed and registered seed (c) nucleus seed (d) all of the above
- 31) In double cross _____
(a) two inbreds (b) three inbreds (c) six inbreds (d) four inbreds
- 32) Allogamy _____
(a) Self pollinated (b) cross pollinated (c) Apomixes (d) parthenogenesis
- 33) Inbreeding is done all
(a) Distant lines (b) closely related plant (c) different plants (d) none of the above
- 34) Improved seed
(a) Progeny of new seed (b) genetically pure (c) genetically and physically pure (d) all of the above

Answer Keys:

Sr. NO	Key
1	A
2	B
3	A
4	B
5	B
6	D
7	B
8	B
9	A
10	A
11	B
12	C
13	B
14	A
15	B
16	B
17	C
18	C
19	A
20	A
21	C
22	B
23	B
24	B
25	B
26	B
27	B
28	A
29	B
30	B
31	D
32	B
33	B
34	C