QB365 Question Bank Software Study Materials

Botany - Plant Breeding 50 Important 1 Marks Questions With Answers (Book Back and Creative)

12th Standard

Biology

| Total Marks | : | 50 | |
|-------------|---|----|--|
|-------------|---|----|--|

(b) pedigree line

(c) inbreed line

(d) heterosis

(a) pure line

| 50 x | 1 = | 50 |
|------|-----|----|
|------|-----|----|

| | | 50 x 1 |
|-----|---|--------|
| 1) | Assertion(A): Genetic variation provides the raw material for selection Reason(R): Genetic variations are differences in genotypes of the individuals. | |
| | (a) Assertion is right and reason is wrong. (b) Assertion is wrong and reason is right | |
| | (c) Both reason and assertion is right. (d) Both reason and assertion is wrong. | |
| 2) | While studying the history of domestication of various cultivated plants were recognized earlier | |
| | (a) Centres of origin (b) Centres of domestication (c) Centres of hybrid (d) Centres of variation | |
| 3) | Pick out the odd pair | |
| | (a) Mass selection - Morphological characters (b) Purline selection - Repeated self pollination | |
| | (c) Clonal selection - Sexually propagated (d) Natural selection - Involves nature | |
| 4) | Match Column I with Column II | |
| | Column I Column II | |
| | i) William S. Gaud I) Heterosis | |
| | ii) Shull II) Mutation breeding | |
| | iii) Cotton Mather III) Green revolution | |
| | iv) Muller and Stadler IV) Natural hybridization | |
| | (a) (b) (c) (d) iiiiiiv i iiiiiv i iiiiiv iiiiiv IIIIIIIV IIII IVII IVIIIIIII | |
| 5) | The quickest method of plant breeding is | |
| | (a) Introduction (b) Selection (c) Hybridization (d) Mutation breeding | |
| 6) | Desired improved variety of economically useful crops are raised by | |
| | (a) Natural Selection (b) hybridization (c) mutation (d) biofertilisers | |
| 7) | Plants having similar genotypes produced by plant breeding are called | |
| | (a) clone (b) haploid (c) autopolyploid (d) genome | |
| 8) | Importing better varieties and plants from outside and acclimatising them to local environment is called | |
| | (a) cloning (b) heterosis (c) selection (d) introduction | |
| 9) | Dwarfing gene of wheat is | |
| | (a) pal 1 (b) Atomita 1 (c) Norin 10 (d) pelita 2 | |
| 10) | Crosses between the plants of the same variety are called | |
| | (a) interspecific (b) inter varietal (c) intra varietal (d) inter generic | |
| 11) | Progeny obtained as a result of repeat self pollination a cross pollinated crop to called | |

| 12) | Jaya and Ratna are the semi dwarf varieties of | | | | | |
|-----|--|-------------|----------------|-----------------------|-------------------------|------|
| | (a) wheat (b) rice (c) cowpea (d) mustard | | | | | |
| 13) | Which one of the following are the species that are crossed to ability to grow in the sugarcane belt of North India? | give sug | arcane varieti | ies with high sugar, | high yield, thick stems | and |
| | (a) Saccharum robustum and Saccharum officinarum | b) Sacch | arum barberi | and Saccharum off | ficinarum | |
| | (c) Saccharum sinense and Saccharum officinarum (d) Sa | accharun | ı barberi and | Saccharum robusti | um | |
| 14) | Match column I (crop) with column II (Corresponding disease | resistant | variety) and | select the correct of | ption from the given co | des. |
| | Column II | | 3, | • | | |
| | I) Cowpea i) Himgiri | | | | | |
| | II) Wheat ii) Pusa komal | | | | | |
| | III) Chilli iii) Pusa Sadabahar | | | | | |
| | IV) Brassica iv) Pusa Swarnim | | | | | |
| | (a) | | | | | |
| 15) | A wheat variety, Atlas 66 which has been used as a donor for | improvir | ng cultivated | wheat, which is rich | n in | |
| | (a) iron (b) carbohydrates (c) proteins (d) vitamins | 3 | | | | |
| 16) | XX71- :-1 | 1. '4 | 444: | | | |
| , | Which one of the following crop varieties correct matches with | n its resis | tance to a dis | sease? | | |
| | (a) (b) | , | (c) | D : . | 1 | |
| | Variety Resistance to Variety disease Resistance Variety disease | to | Variety | Resistance to disease | | |
| | Pusa Pusa | | Pusa | Chilli mosaic | | |
| | Komal Bacterial blight Sadabahar White rust | | Shubhra | virus | | |
| | (d) | | | | - | |
| | Variety Resistance to disease | | | | | |
| | Brassica Pusa swarnim | | | | | |
| 17) | Which of the following is incorrectly paired? | | | | | |
| | (a) Wheat - Himgiri (b) Milch breed - Sahiwal (c) Rice - | - Ratna | (d) Pusa Ko | omal - Brassica | | |
| 18) | Match list I with list II | | | | | |
| | List I List II | | | | | |
| | Biofertilizer Organisms | | | | | |
| | i) Free living N ₂ a) Aspergillus | | | | | |
| | ii) Symbiotic N ₂ b) Amanita | | | | | |
| | iii) P Solubilizing c) Anabaena azollae iv) P Mobilizing d) Azotobactor | | | | | |
| | , , | | | | | |
| | (a) (b) (c) (d) i iiiiiiv i iiiiiiv i iiiiiiv cab d dcab acb d bad c | | | | | |
| 19) | is the process of bringing a plant species under huma | an contro | 1. | | | |
| | (a) Emasculation (b) Hybridization (c) Domestication | (d) Ad | eclimatization | ı | | |
| 20) | Which is not a free-living nitrogen-fixing species? | | | | | |
| | (a) Azotobacter (b) Clostridium (c) Nostoc (d) Anab | aena | | | | |
| 21) | Azolla is best suited biofertilizer for | | | | | |
| | (a) Sugar cane cultivation (b) Paddy cultivation (c) W | /heat cult | ivation (d) | Cotton cultivation | | |

| 22) | Assertion (A): SLF promotes vigorous growth and provide resistance against diseases. Reason (R): SLF is made from kelp containing more than 70 minerals. |
|------|--|
| | (a) Both A and R are true. R explains A. (b) A is true R is false (c) A is false R is true. (d) Both A and R are false |
| 23) | Assertion (A): Hybrids show increased growth and elevated yield. Reason (R): F1 hybrids show Heterosis. |
| | (a) Both A and R are true. R explains A. (b) A is true R is false (c) A is false R is true (d) Both A and R are false |
| 24) | Statement (1): Clonal selection is carried out in asexually propagating plants. Statement (2): Clones show similar genotypes. |
| | (a) Statement 1 is correct and Statement 2 is incorrect (b) Statement 1 is incorrect and Statement 2 is correct |
| | (c) Both the statements are correct (d) Both the statements are incorrect |
| 25) | Intraspecific hybridization is also termed as |
| | (a) Intravarietal hybridization(b) Intervarietal hybridization(c) Interspecific hybridization |
| 26) | The term green revolution was coined by |
| | (a) William S Gaud (b) M.S. Swaminathan (c) Dr. B.P. Pal (d) Dr. N.E. Borla |
| 27) | The first established Atomic Garden in India was |
| · | |
| | (a) Bhabha Atomic Research Institute (b) Indira Gandhi Centre for Atomic Research |
| 0.0) | (c) Indian Agricultural Research Institute (d) Bose Research Institute |
| 28) | Raphanobrassica is an example for |
| | (a) Autopolyploid (b) Allopolyploid (c) Polyploid (d) Polysomy |
| 29) | Atomita 2 - rice is a product by |
| | (a) Polyploid breeding (b) Hybridization (c) Mutation breeding (d) Clonal selection |
| 30) | Luxuriance is the term used on par with |
| | (a) Heterosis (b) Anthesis (c) Hybrids (d) Mutant breeds |
| 31) | Which one of the following is an entomopathogenic fungus? |
| | (a) Beauveria (b) Trichoderma (c) Mucor (d) Rhizopus |
| 32) | Match the following and select the option given below |
| | (a) Selection (i) Removal of anthers |
| | (b) Emasculation (ii) Formation of seeds |
| | (c) Bagging (iii) Desired characters |
| | (iv) protected against undesirable |
| | pollen grains (e) Harvesting (v) Transfer of pollen grams |
| | |
| | (a) a(ii),b (iii),c (iv),d(v),e (i) (b) a (v), b (i), c (ii),d (iii), e (iv) (c) a (iii),b (i), c (iv), d (v), e (ii) (d) a (iv),b (v), c (ii), d (iii), e (i) |
| 33) | Tephrosia purpurea is a |
| | (a) Bio-herbicide (b) Bio- fertilizer (c) Green manure (d) Bio-pesticide |
| 34) | Which one of the following can be grown in the border rows or as intercrops along with the main crop? |
| | (a) Shoe flower (b) Neem tree (c) Spinach (d) Sun hemp |

| 35) | Rice variety IR 8 was introduced from the country |
|-------|--|
| | (a) China (b) Mexico (c) PhiliPines (d) Brazil |
| 36) | Which one of the following is not an objective of plant Breeding? |
| | (a) To prevent the premature falling of buds (b) To develop photosensitive and thermos sensitive varieties |
| | (c) To exploit the nature by applying chemical fertilizers (d) To, increase tolerance to environmental condition. |
| 37) | Find out the mismatched pair |
| | (a) Ethiopia - Tomato (b) South America - Pine apple (c) The Chiloe Centre - potato (d) Mediterranean - Olive |
| 38) | Match the following |
| | (a) Dr. B.P. Pal (i) Eminent rice breeder |
| | (b) Dr. K. Ramiah (ii) Developed C 591 |
| | (c) N.G.P Rao (iii) Developed superior disease resistant wheat |
| | (d) C.T Patel (iv) Sorghum breeder |
| | (e) Choundhary Ram (v) Developed first cotton |
| | Dhan hybrid |
| | (a) (a)(i), (b)(iv), (c)(v), (d)(ii), (e)(iii) (b) (a)(iv), (b)(v), (c)(ii), (d)(iii), (e)(i) (c) (a)(v), (b)(ii), (c)(iii), (d)(i), (e)(iv) |
| | (d) (a)(iii), (b)(i), (c)(iv), (d)(v), (e)(ii) |
| 39) | Arbuscular mycorrhizae belong to the fungal group |
| | (a) Ascomycetes (b) Basidiomycetes (c) Phycomycetes (d) Deutromycetes |
| 40) | Choose the correct statement about heterosis |
| | (a) termed by N.G.P. Rao (b) All the hybrids are not fertile (c) Genetic diversity is affected |
| | (d) Desired characters can not be lost |
| 41) | Who was the director of IARI during green revolution? |
| | (a) B.P. Pal (b) M.S. Swaminathan (c) N.E. Boralug (d) C.T. Patel |
| 42) | Which one of the following is not a free living N2 fixing organism? |
| | (a) Anabaena azollae (b) Azotobacter (c) Clostridium (d) Nostoc |
| 43) | Name the plant which is pest resistant and saline tolerant |
| | (a) Sonalika (b) Triticale (c) Rhaphanobrassica (d) Atomita - 2 |
| 44) | Some of the major species cultivated in Agroforestry for commercial use |
| | (a) Erythrina, Albizzia (b) Malavembu, Kadambu (c) Acacia, Azadirachta Indica (d) Sesbania, Acacia |
| 45) | Selection is a method of |
| | (a) cytology (b) Plant Phycology (c) plant breeding (d) genetics |
| 46) | Plant breeding methods by which new and better varieties of plants can be formed? |
| | (a) Hybridization (b) Selection (c) Testing (d) Hybridization followed by selection |
| 47) | |
| . , , | A collection of plants and seeds having diverse alleles of all the genes of a crop is called |
| | (a) genome (b) herbarium (c) germplasm (d) gene library |
| 48) | was the first scientise to use the term heterosis. |
| | (a) Muller and Stadler (b) Cotton Mather (c) G.H. Shull (d) William S. Gaud |
| 49) | The oldest and basic method of plant breeding is: |

- (a) Introduction (b) Selection (c) Hybridization (d) Mutation Breeding
- 50) The term Green Revolution was coined by:
 - (a) William S. Gaud (b) Dr. B.P. Pal (c) N.E. Borlang (d) M.S. Swaminathan