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	
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(b) pedigree line

(c) inbreed line

(d) heterosis

(a) pure line

1 = 50

		50 x
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) iiiiiiiv i iiiiiiv i iiiiiiv ii iiiiiv IIIIIIIV IIII IVII IVIIIIIIII	
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) intervarietal (c) intra varietal (d) intergeneric	
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 give ability to grow in the sugarcane belt of North India?	sugarcane varieties with high sugar, high yield, thick stems and
	(a) Saccharum robustum and Saccharum officinarum (b) Sa	ccharum barberi and Saccharum officinarum
	(c) Saccharum sinense and Saccharum officinarum (d) Saccha	rum barberi and Saccharum robustum
14)	Match column I (crop) with column II (Corresponding disease resis	tant variety) and select the correct option from the given codes.
	Column II	
	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 impr	oving cultivated wheat, which is rich in
	(a) iron (b) carbohydrates (c) proteins (d) vitamins	
16)	XXII. : -1	
,	Which one of the following crop varieties correct matches with its r	esistance to a disease?
	(a) (b)	(c)
	Variety Resistance to Variety disease Resistance to disease	Resistance to Variety 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 - Ratr	a (d) Pusa Komal - 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 human co	ntrol.
	(a) Emasculation (b) Hybridization (c) Domestication (d	Acclimatization
20)	Which is not a free-living nitrogen-fixing species?	
	(a) Azotobacter (b) Clostridium (c) Nostoc (d) Anabaena	
21)	Azolla is best suited biofertilizer for	
	(a) Sugar cane cultivation (b) Paddy cultivation (c) Wheat	cultivation (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(c) Indian Agricultural Research Institute(d) Bose Research Institute
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) (ii) Formation of seeds Emasculation
	(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
241	(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
46)	(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