STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION

1.	Root of any plant bree	eding programme is :	10.	Which character of maize leads to resistance to							
	(1) Mutation	(2) Genetic variability		maize stem borers naturally?							
	(3) Hybridisation	(4) Selection		(1) High aspartic acid							
2.	The contribution of ag	griculture in indian GDP is		(2) Low nitrogen conter	nt						
	approximately:			(3) Low sugar content							
	(1) 62%	(2) 90%	11.	(4) All of the above							
	(3) 33%	(4) 5%		"Atlas 66" is high protein contained variety of:							
3.	'P-1542' is a hybrid var	riety of which plant?		(1) Wheat	(2) Maize						
	(1) Wheat	(2) Rice		(3) Rice	(4) Bhindi						
	(3) Maize	(4) Pea	12.	Production of thousands of plants through tissu							
4.	"Jaya" and "Ratna" are	better yielding semi dwart		culture method is called:							
		varieties are doveloped in		(1) Macropropagation	(2) Micropropagation						
	which country?			(3) Somatic embryo	(4) Totipotency						
	(1) Japan	(2) India	13.	Which variety of Bhindi is resistance to shoot							
	(3) Phillipins	(4) Mexico		fruit borer ?							
5.		ad poor sugar content and		(1) Pusa Gaurav	(2) Pusa sem-2						
	which part of india?	ıgar cane mainly grown in	14.	(3) Pusa komal (4) Pusa sawani							
	(1) South India	(2) East India		Plants produced by tissue culture method are called							
	(3) North India	(4) West India		(1) Explant							
c	. ,	eat, which developed by		(2) Somaclones							
6.	-	tion is mainly resistance for		(3) Micropropagation							
	(1) Leaf and stripe rust			(4) SCP (Single cell protein)							
	(2) White rust	•	15. 16.	India has maximum genetic diversity of :							
	(3) Bacterial blight			(1) Wheat	(2) Rice						
	(4) Chilly mosaic virus			(3) Mango	(4) Apple						
7.	-	nod of breeding for disease		In India, how many varieties of rice are present							
•	resistance in plants is :	-		(1) 200000	(2) 50000						
	(1) Hybridisation	(2) Selection		(3) 10000	(4) 1000						
	(3) Mutation	(4) Both (1) and (2)	17.	Pomato is an example of :							
8.	In mung bean, resistanc	e to yellow mosaic virus and		(1) Somatic hybrid	(2) Somatic embryo						
	powdery mildew were			(3) Androgenic haploid (4) SCP							
	(1) Plant introduction	(2) Plant tissue culture	18.	Which chemical is used in somatic hybridisation							
	(3) Hybridisation	(4) Mutation		(1) Polyethyline glycole	(2) Acredine						
9.	Parbhani Kranti, which	h has resistance to yellow	19.	(3) HNO ₂ (4) Ethenol							
	mosaic virus is a variet	y of :		Sonalika is variety of :							
	(1) Wheat	(2) Cow pea		(1) Wheat	(2) Rice						
	(3) Bhindi	(4) Chilli		(3) Maize	(4) Pea						

20.	"International center improvement" is situate (1) Phillipins	for wheat and maize" ed at : (2) India	27.				_		/ seeds having a given crop is k		
	(3) Mexico	(4) Brazil		(1)	Genet	ic erosion	ı				
21.		oplied to animal husbandry		(2)	Germ	olasm col	lectior	ı			
	-	th of the following technique tal role in further enhancing		(3)	Gene :	pool					
	food production	di Tole ili futtilei etitidi cirig		(4)	Genet	ic drift					
	(1) Embryo transfer tech	nique	28.	For	how m	anv grow	ing se	ason	ıs, new selected l	ines is	
	(2) Tissue culture technic	que				armer's fi	_		.,		
	(3) Mutations			(1)	Two g	rowing se	asons				
	(4) Biomining			(2)	Three	growing	seasor	าร			
22 .	Green revolution was de	pendent to a large extent		(3)		rowing se					
	on plant breeding technic			. ,	_	rowing se					
	(1) High yielding varietie										
	(2) Disease resistant vari	eties	29 .		iicn of t ndia	ne tollow	ving ri	ce va	ariety were deve	юреа	
	(3) Wild varieties(4) Both 1 and 2				IR - 8			(2)	IR - 36		
22	•	of plant species in order to		` '				. ,			
2 3.	create desired plant type		(3) TN - 1 (4) Jaya								
	cultivation, give better yie (1) Plant systematics (3) Plant monitoring	30.	. Which of the following sugarcane species were crossed to combine desirable qualities of high yield, thick stem, high sugar content and ability to grow in sugarcane areas of North India								
24 .	Classical plant breeding in		(1) Saccharum officinale x Saccharum ba								
	(1) Hybridisation of pure		(2) S. officinarum x S. baberi								
	(2) Hybridisation of pure selection		(3) S. barberi x S.indica								
	(3) Artificial selection ex		(4) S. officinarum x S. officinale								
	(4) Mutation breeding		31.	Match the following							
25 .	Which of the following is r	not a step of plant breeding		A.	Himgi	ri variety		i.	White rust		
	(1) Collection of variabili	ty		В.		warnim		ii.	Hill bunt		
	(2) Evalution and selection	on of parents		С.					Leaf curl		
	(3) Cross hybridisation w	vithin a pure line			Pusa shubhra Pusa sadabahar		_				
	(4) Selection and testing	of superior recombinants		υ.					Black rot		
26 .	_	root of any plant breeding			Α	В	С	Γ)		
	programme			(1)	ii	i	iii	iv	J		
	(1) Genetic variability (2) Evaluation and calcut	ion of november		(2)	i	ii	iv	ii	i		
	(2) Evaluation and select(3) Cross hybridisation a	non of parents mong selectied parents		(3)	ii	i	iv	ii	i		
	(4) Selection of superior	-		(4)	i	ii	iii	iv	J		
	(1) Delection of superior	recombinants									

32 .		disease resistant vo	ariet	ies of plant select out	39 .			of th hung		wing	is n	not a consiquence of				
	(1) WI	heat	_	Himgiri		(1)	Inci	rease	d the r	isk of o	disea	ase				
	(2) Br	assica	_	Pusa swarnim		(2) Reduced life span										
	(3) Ca	nuliflower	_	Pusa shubhra		(3)	Rec	luced	l menta	al abili	ies					
	` ,					(4)	Rec	luced	skin p	igmen	tatio	on				
		owpea .	_	Pusa snowball K1	40 .			_	•	_		evels of vitamins and				
33.		ng bean, resistance ry mildew were ind		minerals, higher proteins and healthier fats is known as												
	(1) Co	onventional breedin	g			. ,			diation		(2)	Biomagnification				
	(2) Mu	utation breeding				` '			cation		. ,	Biotransformation				
	(3) Ge	ermplasm collectior	ı		41.	Which of the following is not an objective of plant breeding for improved nutritional quality										
	(4) Po	olyploidy breeding						_	conten							
34 .	Parbha	ani kranti variety o	f At	olemoschus esculentus		(2) Oil content and quality										
			.ce a	against which of the		(3)	Vita	amin (conten	t						
	followi	ng disease				(4)	Car	bohy	drate c	onten	nt					
	(1) Ye	llow mosaic virus			42 .	Wh	ich (of th	e follo	wing r	nutri	ent was enhanced in				
		ırl blight black rot				hybrid maize developed						in the year 2000				
	. ,	hite rust						l) Lysine				Tryptophane				
		ŕ					(3) Threonine (4) Both 1 and 2									
35.	beetles	Resistance to jassids in cotton and cereal leaf beetles in wheat is due to which of the following morphological / physiological / Biochemical						43 . Which of the following wheat variety have high protein content								
	charac		ΟΙΟξ	gicai / Biochemicai		(1)	Kal	yansc	na		(2)	Sharbati sonaro				
	(1) So	olid stem	(2)	Nectorlessness		(3)	Atla	as 66			(4)	IR - 8				
	(3) Hi	gh aspartic acid	(4)	Hairy leaves	44 .	Biofortified rice are enriched in which of the										
36 .	In mai:	ze resistance to ma	ize s	stem borer is due to			Iron	0	rient		(2)	Amino acids				
	(1) Hi	gh aspartic acid						i ty aci	ds		` '	Essential amino acids				
	(2) Lo	w nitrogen and sug	ar c	ontent	45.			-	llowing	Į	(1)	Loserniai arriirio delas				
	(3) Hi	gh nitrogen and su	ger o	content		A.			A rich	,	i	Lablab				
	(4) Bo	oth 1 and 2				B.	Vita	amin	C rich		ii	Spinach				
37 .	Select	the incorrect matc	h			C.	Fe a	and C	Ca Rich	ı	iii	Bitter gaurd				
	(1) Pu	isa gaurav	-	Aphids		D.	Pro	tein F	Rich		iv	Carrot				
	(2) Pu	ısa sem 2	_	Shoot borers			Α	E	3	С	Ι)				
	(3) Pu	ısa sem 3	-	Jassids & Aphids		(1)	iv	ii	i	ii	i					
	(4) Pu	ısa sawani	-	Fruit borers		(2)	iv	ii	i	i	ii					
38 .	Hidder	n hunger is associa	ted v	with deficiency of		(3)	iii	iv	J	ii	i					
	(1) Pro			Vitamins		(4)	iii	iv	J	i	ii					
	(3) Mi	cronutrients	(4)	All the above												

- **46**. Which of the following can be used for cultivation of SCP
 - (1) Waste water from potato processing plants
 - (2) Straw
 - (3) Sewage
 - (4) All above
- **47**. 250 gm *Methylophilus methylotrophus* can produce how much amount of proteins in a day:-
 - (1) 2.5 tonnes
- (2) 25 tonnes
- (3) 250 tonnes
- (4) 25 Kg
- **48**. Which of the following cell property is the basis of plant tissue culture
 - (1) Homeostasis
- (2) Thermoperiodicity
- (3) Meristematic
- (4) Totipotency

- **49**. Each of the plant obtained through tissue culture are genetically identical to the original plant from which they were grown are known as
 - (1) Genocopies
 - (2) Somaclonal variants
 - (3) Somaclones
 - (4) Phenocopies
- **50**. Fusion between two naked protoplasts is known as
 - (1) Somatic hybridisation
 - (2) Germinal hybridisation
 - (3) Parasexual hybridisation
 - (4) Both 1 and 3

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	ANSWERS KEY																			
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	2	3	4	2	3	1	4	4	3	4	1	2	4	2	2	1	1	1	1	3
Que.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	4	4	2	2	3	1	2	2	4	2	3	4	2	1	4	4	2	4	4	3
Que.	41	42	43	44	45	46	47	48	49	50										
Ans.	4	4	3	1	1	4	2	4	3	4										