GPLUS EDUCATION

Date: Time: **BIOLOGY** Marks:

STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION

Single Correct Answer Type The cultivation of aquatic animals or plants for food is called 1. a) Aquaculture b) Pisciculture c) Sericulture d) Apiculture 2. Differentiation of organs and tissues in a developing organism is associated with a) Developmental mutations b) Differential expression of genes d) Deletion of genes c) Lethal mutations Triticale is obtained by crossing wheat with: b) Barley c) Maize d) Rye 4. Essential oils are made of: a) Vitamins b) Auxins c) Trace elements d) Aromatic volatile organic substances 5. Mule is produced by a) Inbreeding b) Artificial insemination c) Interspecific hybridization d) Intraspecific hybridization Rearing and breeding of fish in ponds, tanks and artificial reservoirs is called: a) Aquaculture b) Fishing c) Pisciculture d) Apiculture Bee wax is a product of importance 7. b) Domestic d) All of these a) Industrial c) Medicinal 8. In 1963 during green revolution the increase in crop production of wheat was due to the introduction of a) Semi-dwarf varieties of wheat us EDUCATION b) Jaya and Ratna c) Both (a) and (b) d) Sonalika and Kalyan Sona Safflower oil is obtained from the seeds of: a) Linum usitatissimum b) Lelianthus annus d) Carthamus tinctorius c) Sesamum indicum 10. Which of the following is the main aim of evaluation of germplasm in plant breeding program? a) To identify plants with desirable combination of characters b) For effective exploitation of the natural genes c) Both (a) and (b) d) For collection of variability 11. Spawning in fishes can be induced by: a) TSH b) Thyroxine d) STH c) FSH and LH 12. An old breeding technique is: a) Introduction d) Hybridisation b) Selection c) Mutation breeding 13. The botanical name for groundnut is:

15. Need for breeding plants, to improve food quality are I. lack of adequate food having adequate nutritional requirements in the world

a) Indigofera tinctoria

14. Saccharum barberi was/is grown in

c) Arachis hypogea

a) East India

II. majority people are unable to buy enough fruits, vegetables, legumes, fish and meat and thus suffer from

b) Crotolaria juncea

c) North India

d) Astragalus gummifer

b) West India

d) South India

				opius zaucano	
	deficiencies or hidden hu	_			
	III. essential micronutrients are absent from diet				
	Choose the correct option				
	a) I and II	b) I and III	c) II and III	d) I, II and III	
16.	•	viduals differing in genoty			
	a) Domestication	b) Incubation	c) Hybridization	d) Mutation	
17.		e cotton plant is obtained fr			
	a) Roots	b) Stems	c) Seeds	d) Leaves	
18.	The cheapest high energy	-			
	a) Apple	b) Guava	c) Mango	d) Banana	
19.	Emasculation of flowers	is carried out through remo	oval of:		
	a) Sigma	b) Sepals and petals	c) Anthers	d) Entire organism	
20.	In protoplast fusion, the				
	a) Cellulose, hemicellulos	se, pectinase			
	b) Pectinase				
	c) Ligase, hemicellulose				
	d) Hemicellulose				
21.	Cows and buffaloes rema				
	a) 24-36 hours	b) 36 - 48 days	c) 7 - 10 days	d) 15 - 20 days	
22.	_	, which of the following are	selection and testing of su	perior recombination in	
	plant breeding?				
	=	f plants amont the progeny		combination of characters	
		or to both the parents this i			
		ed for several generations t		ormily or homozygosity in	
	=	regation of characters in th	e future progeny		
	d) All of the above	1.0			
23.		nows correct chronological		-	
	-	\rightarrow Explant \rightarrow Addition of cy			
		n → Addition of cytokinin –	-		
		$n \rightarrow Callus \rightarrow Addition of cy$	-		
		ll division → Addition of cy	tokinin → Cells acquire me	ristematic property	
24.	Which of the following or	=			
	a) Musca	b) <i>Bombyx</i>	c) Pheretima	d) Periplaneta	
25.		ereals, where much of the p			
	a) Aleurone	b) Endosperm	c) Pericarp	d) Embryo	
26.		ogramme haploids are impo	ortant because they:		
	a) Require one half of nu				
	b) Are helpful in study of				
	c) Grow better under ad				
		gous individuals on diploid			
27.	-	type of dance to communic			
	a) Tap dance		b) Round dance and wag	gling dance	
	c) Break dance		d) Waggle dance		
28.	The plant cell without the				
	a) Protoplast	b) Cytoplast	c) Nucleoplast	d) None of these	
29.		lant to grow into a whole p			
	a) Plant culture	b) Tissue culture	c) Cellular totipotency	d) All of these	
30.		results in reduction of ferti		is called	
	a) Homozygosity		b) Outbreeding		
	c) Inbreeding depression	1	d) Outbreeding depression	on	

-	GPLUS EDUCATION WEB: W	/WW.GPLUSEDUCAT	ION.ORG PHO	NE NO: 8583042324 Page 3		
	a) A-sheep, B-Bikaneri ewes, C-N	Marino rams	b) A-chicken, B-Dorkin	ng, C-Sussex		
	Here A and C refers to					
42.	Hisardale is a new breed ofA	developed in Punj	ab by crossingB and	dC		
	c) Musk-Deer		d) Kangaroo- <i>Macrop</i> u	ıs		
	a) Tachyglossus-Echidna		b) Physetter-Sperm w	hale		
	cosmetics:		,	A		
41.	Ambergis is the secretion from t		•			
		I and III	c) II, III and IV	d) I, II, III and IV		
	Which of the above statement ar		morar super vision			
	IV. pay attention to good animal		eneral supervision			
	III. each animal should be fed on a balance ratio					
	I. selection of both the male and female animals having high yielding potential and resistance to diseases II. regular visits by a veterinary doctor					
101	-			ial and resistance to diseases		
40	The parameters carried out for r		, ,	aj marase		
57.		talase	c) Ligninase	d) Maltase		
39	The enzyme used for isolation of	f single cell from evn	lant/cell is			
	d) Production of insulin	and Deel				
	c) Clarification of vinegar, wines					
	b) Preparation of paints and var	*				
ატ.	a) Feeding cattle, pigs and poult		Lipany used for			
3δ	a) Pig b) Do Isinglass, a type of byproduct of	•	,	uj iak		
٥/.		nkey	c) Mule	d) Yak		
37	A beast of burden which needs li		cj II, III allu IV	uj i, ii, iii aiiu iv		
	-	I and III	c) II, III and IV	d) I, II, III and IV		
	Choose the correct option	ous disease				
	III. superior quality of milk, meat eggs wool, etc. IV. improved resistance to various disease					
	_					
	II. increased production of milk,	meat agg wool etc.				
JU.	I. improved growth rate	it are the main objec	uve of allillars breeding	g:		
36	Which of the following statemen		*			
JJ.	a) Mule b) Ya		c) Camel	d) Elephant		
35.	The animal most useful on diffic	ult terrains is:	a) in or these			
	c) Cattle and buffaloes only		d) All of these	<u>.</u> y		
J fi	a) Sheep and goat only		b) Pigs and camels on	ly		
34	Word livestock refers to	111	of romy	a, in only		
	a) I and II b) I a	nd III	c) I only	d) III only		
	Chose the correct option					
	II. mutation breeding III. radiation breeding					
	I. conventional breeding techniq	lues				
აპ.	Methods of breeding for acquiring	-	e are			
22		itation	c) Mutation breeding	d) Heterosis		
	in genes, which creates a new ch		-			
<i>32</i> .	is a phenomenon by which g					
22	a) Only I b) On	•	c) I and II	d) None of these		
	Which of the statement given ab					
	II. It is done to increase milk pro	_	rate in animals			
	either side of their pedigree up t					
	I. It is the breeding between of		e same breed but do n	ot have common ancestors on		
31.	Read the given statement about	_				
				Gpius Eaucation		

			opius zaacation		
43.	c) A-chicken, B-leghorn, C-Plymouth rock Economic importance of fish includes	d) A-cow, B-Jersy, C-Brow	n swis		
	I. fish as food				
	II. source of income				
	III. aesthetic value				
	Which of the above are correct?				
	a) I and II b) I and III	c) II and III	d) I, II and III		
44.	Lysine and tryptophan are				
	a) Proteins				
	b) Non-essential amino acids				
	c) Essential amino acids				
	d) Aromatic and no acids				
45.	Which of the following disease resistance enhancem	ent introduced by mutation	n in moong bean?		
	I. Yellow mosaic virus				
	II. Powdery mildew				
	III. Black rust				
	Choose the correct option				
	a) I and II b) I and III	c) II and III	d) I, II and III		
46.	The conventional method of breeding for resistance	includes			
	I. screening the germplasm for resistant sources				
	II. hybridization of selected parents				
	III. selection and evaluation of the hybrids				
	IV. testing and release of new varieties	>			
	Choose the correct option				
	a) I, II and III b) I, III and IV	c) II, III and IV	d) I, II, III and IV		
47.	The primary aim of animal breeding is to breed such	n animals which are able to	produce		
	a) Qualitative increase in the product				
	b) Quantitative increase in the product	CATION			
	of Marinesing of animal product	27114011			
	d) Both (a) and (b)				
48.	The scientific name of maize is:				
	a) Zingiber b) Zea mays	c) Raphanus	d) Daucas		
49.	What is the outcome of increased resistance power	in crops?			
	I. Enhance production				
	II. Reduces the dependence on fungicides and bacter				
	III. Reduces the dependence on technical agricultura	al tools			
	Choose the correct option				
	a) I and II b) I and III	c) II and III	d) I, II and III		
50.	The insect that is not found in the wild state is:				
	a) Lac insect b) Cochineal insect	c) Honey bee	d) Silk moth		
51.	Aim of plant breeding is to grow				
	a) Disease free varieties	b) High-yielding varieties			
=-	c) Early-maturing varieties	d) All of the above			
52.	Which of the following is not an oil seed?				
-	a) Helianthus annus b) Cocos nucifera	c) Arachis hypogea	d) Phaseolus aureus		
53.	Improved varieties of wheat suitable for Indian envi				
	a) Euploidy and cloning	b) Hybridization and mut			
	c) Polyploidy and hybridization	d) Cloning and polyploidy			
54.	is used in the manufacture of many items inclu		ams and polishes of various		
	kinds. The most appropriate word for filling the blan	nk is			

	a) Bee wax b) Honey	c) Latex	d) Resin
55.	A milch breed of cow is:	of Euron	a) Noom
	a) Haryana b) Malvi	c) Kankrej	d) Halliker
56.	is an industry that includes catching processi		
	a) Fisheries b) Apiculture	c) Sericulture	d) None of these
57.	The embryo which develops from somatic cell is	•	.,
· · ·	a) Somatic embryo	b) Reproductive embryo)
	c) Clone embryo	d) None of these	
58.	Hinny is a cross breed between:	ay none or mese	
50.	a) Male donkey and female horse	b) Female donkey and n	nale horse
	c) Male mule and female horse	d) None of these	idie norse
59.	Science of altering the genetic pattern of plants in		e and utility for human
37.	welfare is called	Torder to increase their valu	e and utility for human
	a) Plant breeding b) Agriculture	c) Plant genetics	d) All of these
60	Which one of the following is the American poult	-	u) An or these
00.	a) Australorp b) Rhode Island Red	c) Minorca	d) Aseel
61			u) Aseel
61.	Compared to a bull a bullock is docile because of:		
	a) Higher levels of cortisone		
	b) Lower levels of blood testosterone	alaad	
	c) Lower levels of adrenalin/noradrenalin in its l	biood	
62	d) Higher levels of thyroxina		
62.	Maximum cocoon and raw silk production is in:	-) H C C D	d) Duaril
(2	a) China b) Japan	c) U.S.S.R	d) Brazil
63.	Which of the following is a disease resistant, high a) Aseel b) White leghorn		
<i>(</i> 1	a) Tibeer b) White regnerii	e y an naja	d) Plymoth rock
04.	Which one of the following products of apiculture		
6 F	a) Honey b) Oil	c) Wax	d) Royal jelly
65.	Semi-dwarf varieties of rice were developed from	7 No. 1 Aug 12 12 12 12 12 12 12 12 12 12 12 12 12	J) I J D
66	a) IR-8 b) Taichung Native-1	c) Both (a) and (b)	d) Jaya and Ratna
00.	Largest silk producing state of India is:	a) Aggam	d) West Dongs
67	a) Karnataka b) Bihar	c) Assam	d) West Bengal
67.	Larval form of silk moth is called:	a) Catamaillan	4) 147
60	a) Naiad b) Maggot	c) Caterpillar	d) Wriggler
68.	Bhutia is a breed of:	a) Chara	d) Hanaa
60	a) Chicken b) Goat	c) Sheep	d) Horse
09.	Which of following species is specially domestica	•	-
70	a) Apis indica b) Apis mellifera	c) Apis dorsata	d) Apis florea
70.	Passive, non-locomotory and non-feeding stage in	•	d) Duna
71	a) Caterpillar b) Imago	c) Nymph	d) Pupa
/1.	Regulations governing movement of diseased pla		D. D. et al. Com
70	a) Crop protection b) Quarantine	c) Plant regulation	d) Rotation
12.	The larger distribution of clean quality milk all th		_
7 0	a) Robert Koch b) Leeuwenhoek	c) Louis Pasteur	d) Blackmann
73.	Teak is obtained from plant:	-) T- et eu e	1) C - 1 1 1
	a) Shorea robusta b) Mangifera indica	c) Tectona grandis	d) Cedrus deodora
74.	Which of the following is not a true pulse crop?		1) (
	a) Vicia faba b) Phaseolus aureus	c) Cassis fistula	d) Cajanus cajan
/5.	In tissue culture, roots can be induced by		
	a) Lower concentration of cytokinin and higher c	oncentration of auxins	
	b) Only cytokinin and no auxins		

	c) No cytokinin and only auxins				
	d) Higher concentration of cytokinin and lower concentration of auxins				
76.	. Blue revolution				
	I. It is the rapid expansion intensive commercial aquaculture				
II. Increase global food production and reduce widespread hunger					
	Which of the statements given above is/are correct?				
	a) Only I b) Only II	c) I and II	d) None of these		
77.	Cryopreservation is useful for:	.,	,		
	a) Preservation of semen	b) Very young foetuses			
	c) Living cells and body parts	d) All the above			
78	Keeping beehives in crop field during flowering per				
, 01	a) Honey and wax yield b) Crop yield	c) Both (a) and (b)	d) Pollination in wheat		
79.	New varieties of plants can be produced by:	e) bear (a) and (b)	a) i omiliarion in illinoat		
, , .	a) Selection and hybridization				
	b) Subjecting them to very heavy dose of radiation				
	c) Subjecting them to doses of radiation and selection	nn			
	d) Subjecting them to continuous radiation	, ii			
80.	Hidden hunger can be defined as				
00.	a) Majority people are unable to buy enough fruits,	vegetables legumes fish an	d meat and thus suffer		
	from deficiency	· egetables, legames, his i an	a meat and that barrer		
	b) People are unable to buy healthy drink item and	hus suffer from deficiency			
	c) People are unable to buy vitamin and minerals m	•	m deficiency		
	d) All of the above		<u>,</u>		
81	Pure line breeds refer to:				
	a) Homozygosity and independent assortment	b) Homozygosity only			
	c) Heterozygosity	d) Heterozygosity and lin	kage		
82.	International Rice Research Institute (IRRI) is situated		8		
	a) New York (USA) b) Tokyo (Japan)	c) Manilla (Philipines)	d) Hydrabad (India)		
83.	Pomato is a somatic hybrid of	WIIDIN ,			
	a) Potato and onion b) Potato and tomato	c) Potato and brinjal	d) Potato and garlic		
84.	Real product of apiculture is	,	, ,		
	a) Honey b) Bee wax	c) Both (a) and (b)	d) Sugar		
85.	Protoplasts of two different species are fused in	, , , , , ,	, ,		
	a) Miropropagation	b) Somatic hybridization			
	c) Clonal propagation	d) Organography			
86.	The largest groundnut producing country is:	, , ,			
	a) U.S.A. b) Brazil	c) India	d) Burma		
87.	A breeder evolving disease resistant variety will sta	rt with:	•		
	a) Working out yield of different varieties	b) Go through the subject	in library		
	c) Selection of parents	d) Hybridisation	·		
88.	Which one of the following is the source of silk?	, ,			
	a) Eggs b) Caterpillar	c) Cocoon	d) Pupa		
89.	Self pollination results in:		•		
	a) Heterosis	b) Hybridisation			
	c) Polyploidy	d) Inbreeding depression			
90.	"Jaya" and "Ratna" developed for green revolution in				
	a) Maize b) Rice	c) Wheat	d) Bajra		
91.	Animal husbandry deals with	•	•		
	I. breeding of livestock buffaloes, cows, sheep, came	ls, etc., that are useful to hu	mans		
	II rearing catching selling etc. of fish molluses and				

				opius zuucu
	III. breeding of fowls for h			
	Which of the statement gi		-) II J II	111 L 11 1 (L
02	a) I and II	b) I and III	c) II and II	d) I, II and III
92.	a) Mutagens	ced by means of certain age b) Carcinogen	c) Oncogenes	d) None of these
93.	-	ct about centre of origin of	, 0	d) None of these
73.	a) More diversity in impr	_	b) Frequency of dominant	gene is more
	c) Climatic condition mor	=	d) None	gene is more
94.	Consider the following sta		a) Hone	
	_	ry important for animal hu	ısbandry	
	-		eeding should be of superio	r quality
	III. The word 'husbandry'	means the management of	domestic affair	
	IV. In our country, poultry	mainly means chickens, d	omesticated for egg	
	V. Cows and buffaloes ger	erally give more milk than	goats and sheep	
	VI. The yellow colour of b	uffalo milk is due to carote	ne	
		ven above are true and wh	ich are false?	
	I II III IV V VI			
	a) F F T T F F	b) T T F F T F	c)	d) F T F T T F
95.	Emasculation is removal of			
	a) Stigma from flower of i	——————————————————————————————————————	b) Calyx from flower of m	=
06	c) Calyx from flower of fe Lac is:	maie parent	d) Stamens from flowers	of female parent
90.	a) Excretion of lac insect		b) Dead body of lac insect	
	c) Body secretion of lac ir	sect	d) None of the above	
97.		79.1	rcial production through o	it the world is
,,,	a) Leghorn	b) Plymoth rock	c) Cornish	d) New Hampshire
98.	· -		wing stage is transferred to	
) II (). 1	E PALLA	b) 2 celled embryo	8
	c) Fertilised egg	JPLUS EDUC	d) 8 to 32 celled embryo	
99.	High yielding variety of ri	ce is:		
	a) Dhann	b) IR-8	c) Tripsacum	d) Digitaria
100		•	of genes, transfer and integ	ration is:
	a) Protoplast fusion and t	issue culture	b) Somaclonal hybridisati	on
	c) Gene bank technology		d) Genetic engineering	
101		n for tissue culture is called		
400	a) Inplant	b) Explant	c) Transplant	d) Both (b) and (c)
102	. Which one is a rich source	e of vitamin-A?		
	I. Carrot II. Lemon			
	III. Beans IV. Spinach Choose the correct option			
	a) I and II	b) I and III	c) I and IV	d) I, II, III and IV
103		•	l share many similarities ar	
100	a) Breed	b) Race	c) Variety	d) Species
104	. A good germplasm collect	•	.,	, - [
	a) A successful breeding p			
	b) Hybridization	-		
	c) Selection of plant			
	d) Emasculation			
105	. The milch breeds of cattle			
	a) Mallikar, Nageri and M	alvi	b) Gir, Sahiwal and Deoni	

			Opius Luucution			
c) Kankrej, Haryana 106. Which one is the bes	_	d) Tharparkar and Kan	gayam			
a) Eri silk	b) Mulberry silk	c) Tasar silk	d) None of the above			
	disease free plants through t	-	-			
a) Embryo culture	b) Protoplast culture	c) Meristem culture	d) Anther culture			
•	lowing combination would a		•			
	a) Thick stem, long internodes, high sugar content and disease resistant					
	sugar content and profuse flo					
	internodes, high sugar conte					
•	ugar content, disease resistar					
109. Hardening in tissue	culture is					
a) Keeping 30°-50°0	temperature for about 30 m	inutes				
	f tissue culture plants slowly					
c) Plunging the vials	s into water at 37°-40°C					
d) None of the above	9					
110. Fibre yielding plant	is:					
a) Triticum	b) Gossypium	c) Pennisetum	d) Rauwolfia			
111. A draught breed of o	attle is:					
a) Red Sindhi	b) Gir	c) Malvi	d) Haryana			
112. In plant breeding pr	ogrammes, the entire collecti	on of (plants/seeds) having	all the diverse alleles for all			
genes in a given cro	o is called:					
a) Cross-hybridisati	on among the selected parent	ts				
b) Evaluation and se	election of parents					
c) Germplasm collec	ction	_				
d) Selection of super	rior recombinants	P				
113. Mutation breeding i	s carried out by					
I. inducing mutation	s in plants by various means					
II. screening the plan		ICATION				
-	irable plant for multiplication	n and breeding				
Choose the correct of	_					
a) I and II	b) I and III	c) II and III	d) I, II and III			
	_		eld. Saccharum of ficinarum			
-	lia, had thicker stem andD.	-				
a) A-North, B-poor,	S	b) A-South, B-higher, C-	-			
c) A-East, B-poor, C-		d) A-West, B-higher, C-I	North, D-poor			
	lowing is not an important In					
a) Sorghum vulgar		b) Pennisetum typhoid	les			
c) Eleusine coracai		d) None of the above				
116. Murrah is a breed of) D (C 1				
a) Cow	b) Sheep	c) Buffaloes	d) Goat			
	exhibits non-preference by	2.00	la Gr			
a) Jassids	b) Fruit borer	c) Stem borer	d) Stem sawfly			
118. Pearl oyster belongs		a) Carallana da	12. A			
a) Gastropoda	b) Pelecypoda	c) Scaphopoda	d) Amphineura			
	on is better than natural inse					
	alls can be provided everywhe	ere				
	nood of contagious diseases					
c) It is economical d) All the above						
•	due left after the extraction o	f sugarcane juice is known a	c:			
1201 The dry horous rest	and for after the CAH activity	i sagai cane juice is kiiuwii d	u.			

a) Molasses	b) Bagasse	c) Massecuite	d) None of the above
-	t production increased from	.A tonnes toB tonnes	•
fromC tonnes to	.D tonnes		
Here A to D refers to			
a) A-11 million, B-75	million, C-35 million, D-89.5 m	illion	
b) A-14 million, B-80	million, C-40 million, D-92.5 m	illion	
_	million, C-35 million, D-89.5 m		
	million, C-40 million, D-90 mil	lion	
122. Emasculation is relate			
a) Pureline	b) Mass selection	c) Clonal selection	d) Hybridization
=	reed plants and animals with o	_	:
a) Ikebana technique		b) Tissue culture	
c) Genetic Engineerin	_	d) Chromosome Engineer	ring
124. Common wild rock ho	-	-) A'- J	J) N
a) Apis mellifera	b) Apis indica	c) Apis dorsata	d) None of the above
125. Anatomically, cotton f a) Bast fibres		a) Enidormal haira	d) Dith colle
-	b) Xylem fibresg is considered as the root of a	c) Epidermal hairs	d) Pith cells
a) Genetic variability	b) Cross hybridization	c) Hybrid vigour	d) Heterosis
•	volution in the 1960s was poss	, ,	d) Heterosis
a) Hybrid seeds	voiduon in the 17003 was poss	sible primarily due to	
b) Increased chloroph	vll content		
	g in plant height reduction		
d) Quantitative trait n			
• •	veloped through intergeneric l	hybridization between:	
a) Wheat and Rye/Sea		b) Wheat and Aegilops	
c) Wheat and Rice		d) Rice and Maize	
129. In tissue culture meth	od, the embryoids formed from	n pollen grain is called	
a) Cellular totipotency	y b) Organogenesis	c) Triple fusion	d) Callus culture
130. Microbes like Spirulin	na can be grown on material li	ke	
I. waste water from po	otato processing plants		
II. straw			
III. animal manure and	d sewage		
IV. molasses			
Choose the correct op			
a) I and II	b) I, II and III	c) II, III and IV	d) I, II, III and IV
_	luction from the cocoons of sil		
a) India	b) China	c) United Kingdom	d) U.S.A.
132. Indian rubber tree bel	o .	-) Trili	1) M
a) Euphorbiaceae	b) Malvaceae	c) Tiliaceae	d) Moraceae
	ng and rearing of fish is called	a) Conjoultuno	d) Anjaultura
a) Aquaculture	 b) Pisciculture species from which modern ty 	c) Sericulture	d) Apiculture
a) Triticum boeticum	-	c) Triticum aestivum	d) Triticum squarrosa
•	wheat variety developed by	c) Trucum destivum	a) Tracam squarrosa
	onal Wheat and Maize Improve	ment Centre	
	tanical Research Institute	mone dend c	
c) Australian Crop Im			
d) African Crop Impro	_		
136. Somatic hybridization			

	a) Natural breeding	b) Natural pollination	c) Artificial pollination	Gplus Education d) Artificial breeding
137.	Some plants developed by	meristem culture are b) Sugarcane	a) Datata	d) All of those
138	a) BananaCulturing of isolated plant	, ,	c) Potato	d) All of these
150.	a) Explant culture	b) Inplant culture	c) Organism culture	d) Organ culture
139.	A man-made allopolyploid		e, ergannom eanem e	,
	a) <i>Hordeum vulgare</i>	b) <i>Triticale</i>	c) <i>Raphanobrassica</i>	d) <i>Zea mays</i>
140.	Honey		, 1	
	I. is a natural valuable ton	ic for human body		
	II. contains various subs	stances of high medicinal	value, including importa	nt enzymes, vitamins and
	disaccharide sugars main	ly glucose and fructose		
	III. a number of ayurvedic	medicines are taken with l	honey	
	Which of the statement gi	ven above are correct?		
	a) I and II	b) I and III	c) II and III	d) I, II and III
141.	Cereals and millets are ma	ainly deficient in which typ	e of amino acids	
	a) Sulphur containing am	ino acids-methionine and c	ysteine	
	b) Tryptophan			
	c) Both (b) and (c)			
	d) Lysine			
142.	Which one of the followin	g is a disease of poultry?		
	a) Foot and mouth disease	e	b) Pebrine disease	
	c) Anthrax		d) Ranikhet disease	
143.	Through which method m	ore numbers of female pla		aya?
	a) Spraying ethephon	b) Genetic engineering	c) Polyploidy breeding	d) Tissue culture
144.	Callus can form shoot or r	oot by changing ratio of:		
	a) Auxin to gibberellin	1.0	b) Auxin to cytokinin	
	c) Cytokinin to ethylene		d) Gibberellins to cytokin	in
145.	Gestation period for buffa	lo is:	ΔΤΙΩΝ	
	a) 9 months	b) 14 months	c) 10 months	d) 21 - 22 months
146.		rminating pollen grain will	-	
	a) Diploid	b) Haploid	c) Triploid	d) Tetraploid
147.	The scientific name of lac			
	a) Tachardia lacca	b) Bombyx mori	c) Cimex lectularis	d) Pediculus pithiris
148.	_	cross hybridization is a time		
	crop species	riability is collected from w		
	b) It involves the selection characters	n of plants among the proge	eny of the hybrids with des	ired combonation of
	c) In involves emasculation	on and bagging techniques	to transfer desired pollen g	rains to a desired plant
	d) Both (a) and (b)			
149.		s are usually maintained at	aA temperature in the	form ofB Here A and
	B refers to			
	a) A-low, B-plant	b) A-low, B-seed	c) A-high, B-plant	d) A-high, B-seed

152. The Indian Agricultural Research Institute, New Delhi has released several fortified vegetable crops that are rich in vitamins and minerals. These are

150. Tassar silk moth belongs to the family:

a) Gross Domestic Product

c) Grant Domestic Product

b) Sturnidae

a) Bombycidae

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151. GDP stands for

c) Hymenoptera

b) Grant Domestic Payment

d) Gross Domestic Payment

d) Diptera

				•	
	I. Vitamin-A enriched carr				
	II. Vitamin-C enriched bitter gourd, bathua, mustard tomato				
	III. Iron and calcium enriched spinach and bathua				
		d beans, French bean, gard	len pea		
	Choose the correct option				
	a) I, II and III	b) I, III and IV	c) II, III and IV	d) None of these	
153	. The percentage of proteir				
	a) 12%	b) 35%	c) 64%	d) 70%	
154	. Norin-10 gene of dwarfne	ess in wheat was originated	d in		
	a) India	b) Japan	c) Mexico	d) USSR	
155	. Which one is not included	d in animal husbandry?			
	I. Poultry farming				
	II. Fish farming				
	III. Organic farming				
	IV. Molecular farming				
	Codes				
	a) I and II	b) I and III	c) II and III	d) III and IV	
156	. The inherent capacity of a	a cell to regenerate a new v	whole organism is called		
	a) Ontogeny	b) Totipotency	c) Phylogeny	d) Proliferation	
157	. The botanical name of sw	eet flag, commonly used as	s antispasmodic, expectora	nt and remedies for asthma	
	and chronic diarrhoea is:				
	a) Berberis aristaat	b) Ferula asaf oetida	c) Acorus calamus	d) Gentiana lutea	
158	. In India the best aquariur	n is located at:			
	a) Z.S.I. Kolkata	b) Tarapur, Mumbai	c) Chennai	d) Vishakhapatnam	
159	. The method of growing o	r producing thousands of p	olants through tissue cultur	e is called	
	a) Totipotency	b) Somaclones	c) Micropropagation		
160		tations are induced by usin		, , , , ,	
	a) Aniline	b) Alcohol	c) Graphene	d) Both (a) and (b)	
161	,		nates have been developed		
	a) Hybridisation and mut		b) Mutation and cloning		
	c) Cloning of polyploids		d) Polyploidy and hybrid	isation	
162	. Spirulina is a				
	a) Cyanobacteria	b) Fungi	c) Protozoan	d) Brown algae	
163	. The method maximum us	, ,	.,	.,	
	a) Random breeding	6 G	b) Artificial insemination		
	c) Controlled breeding		d) Super ovulation and en		
164		tissue culture should have	· -		
	I. sucrose				
	II. inorganic salts				
	III. growth regulators				
	IV. vitamins				
	V. amino acids				
	Choose the correct option	1			
	a) I, II, III, IV and V	b) II, III, IV and V	c) I, II, III and IV	d) I, II, IV and V	
165	-	ants is an oil as well as fibr	-	aj i, ii, iv ana v	
103	a) Linum usilatissum	b) Sesamum indicum	c) Helianthus annus	d) Brassica juncea	
166	. Choose breeding	oj sesamam mateant	ej menuninus unnus	aj Di assica jancea	
.00	_	erior male of one broad wi	ith superior female of anoth	per hreed	
	-	the desirable genes of the t	=	ici Diccu	
	-	-			
	in the progeny may be us	sed for commercial produc	LUUII		

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	hich of the statements g			
-	I and II	b) I and III	c) II and III	d) I, II and III
		our indigenous breed of ch		
_	•	b) White Leghorn	c) Aseel	d) Rhode Island Red
	ategic steps for inbreed	=		
		nd superior female of the sa	ame breed	
II. t	these are than mated in	pair		
III.	evaluate the progeny o	btained from the mating to	identify superior males ar	nd females
IV.	In cattle superior fema	le is the cow or buffalo tha	at produce more milk per l	actation and superior male
is t	the bull that gives rise to	o superior progenies		
V. S	Superior progenies obta	nined are further mated		
Arı	range the above given s	teps in correct sequence ar	nd select the correct answe	r
a)	$I \to III \to II \to IV \to V$		b) $I \rightarrow II \rightarrow III \rightarrow IV \rightarrow V$	
c)]	$III \to I \to II \to IV \to V$		d) III \rightarrow II \rightarrow I \rightarrow V \rightarrow IV	
169. Sin	ngle cell protein is an alt	ernative protein source for	animal and human nutriti	on formed from certain
ber	neficial microorganisms	s like		
a) .	Spirulina		b) Methylophilus methylo	otrophus
c)	Candida utilis		d) All of the above	
170. Th	e scientific process by v	vhich crop plants are enricl	hed with certain desirable	nutrients is called
a) (Crop protection	b) Plant breeding	c) Biofortification	d) Bioremediation
171. Cei	ntral Food Technologica	al Research Institute is loca	ted at:	
	Izatnagar	b) Lucknow	c) Dehradun	d) Mysore
172. Ha	iry leaves of many plant	ts are associated with prov	iding resistance from	
	Insect pests	b) Bacteria	c) Virus	d) Bollworm
-	-	rop yield is (e.g. wheat)		
	Using tractors		b) Sowing seeds of improv	ved varieties
-	Eradication of weeds		d) Reduce ration holders	
-		ase of cattle is theA tha		lactation. On the other
	•	natC which gives rise to		
	d D refers to	· ·	•	
a) .	A-cow, B-male, C-bull, D)-superior progeny		
	A-buffalo, B-male, C-bul			
-	A-cow, B-male, C-bull, D			
_	A-cow, B-male, C-bull, E			
-	tural silk contains:	1 0 7		
a)]	Potassium	b) Phosphorus	c) Nitrogen	d) Magnesium
_		IR-8) has been introduced	, ,	, 0
	Taiwan	b) Philippines	c) Mexico	d) Japan
-		aspartic acid, low nitrogen		
	Aphids	b) Fruit borer	c) Jassids	d) Stem borer
-	-	e of the following plants is a	• •	
	Arachis hypogea	0.1	b) Gossypium hirsutum	v
-	Atropa bellodona		d) Rauwolfia serpentina	
-	-	g is not a fungal disease?	, , ,	
	Rust of wheat	, ,	b) Smut of bajra	
-	Black rot of crucifers		d) Red rot of sugar cane	
-	nalika and Kalyan Sona	are the varieties of	,	
	Wheat	b) Rice	c) Millet	d) Tobacco
-		tained species of bee by be	•	
	-	b) <i>Apis dorsata</i>	c) <i>Apis indica</i>	d) <i>Apis florae</i>

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182. The oil used for the treatment of toothache is:	o) Maratanda (1	1) Comment of
a) Clove oil b) Castor oil	c) Mustard oil	d) Coconut oil
183. Which of the following yield an aromatic essential of	on used as antiseptic, a ny r	epellent and modifier in hair
lotion?	h) Calandula officinali	'a
a) Chicory	b) Calendula of ficinalid) Helianthus annus	S
c) French marigold	•	
184. High-yielding and disease-resistant wheat varieties I. Sonalkia II. Kalyan Sona	ale	
•		
III. Jaya IV. Ratna Choose the correct option		
	a) II and III	d) III and IV
	c) II and III	d) III and IV
185. In cotton, smooth leaf and absence of nector repel a) Sawflyb) Bollworms	c) Beetle	d) Ioggida
a) Sawfly b) Bollworms 186. In crop improvement programmes, virus-free clone	-	d) Jassids
a) Grafting b) Hybridization	c) Embryo culture	d) Chaot apoy gulturo
187. Stilbesterol is used for:	c) Embryo culture	d) Shoot apex culture
a) Induction of lactation	b) Artificial insemination	2
c) Super-ovulation	d) Cryopreservation	1
188. The callus is not formed in	u) ci yopi esei valion	
a) Tissue culture b) Suspension culture	c) Clonal propagation	d) Sexual reproduction
189. Which is the real product of Honey bee:	c) Glottal propagation	u) sexual reproduction
a) Honey b) Pollen	c) Beewax	d) Propolis
190. The technique of regeneration of whole plant from a		7 -
under aseptic/sterile conditions in vitro is called	any part of a plant by grow	ing it on a suitable culture
a) Tissue culture b) Plant culture	c) Callus culture	d) Seed culture
191. Inbreeding is carried out in animal husbandry beca	•	a) seed culture
a) Increases vigour	b) Improves the breed	
c) Increases heterozygosity	d) Increases homozygosi	itv
192. Identify the edible marine fish	a) mercuses nomozygosi	ity
a) Hilsa b) Pomfret	c) Both (a) and (b)	d) Catla
193. Which of the following countries has maximum ave		
a) United Kingdom b) U.S.A		
194. Which of the following is a dual purpose breed?	o) Bommarn	a) maia
a) Sindhi b) Deoni	c) Jersey	d) Sahiwal
195. The animals that we would expect in a dairy are	-,,,	
a) Cows b) Buffaloes	c) Sheep and goats	d) All of these
196. Quarantine regulation is meant for:	-)	,
a) Preventing entry of diseased plants/pathogen/w	yild plants in the country	
b) Spraying diseased plants with insecticides	1	
c) Promoting dry farming		
d) Growing fruit trees in all the states		
197. Androgenic haploids were produced from anther cu	ulture for the first time by:	
a) Bateson	b) Ninan	
c) Auerbach and Stadler	d) Guha and Maheshwar	i
198. Gram belongs to family:	•	
a) Leguminoseae b) Gramineae	c) Ranunculaceae	d) Solanaceae
199. In MOET procedure to induce follicular maturation	-	-
are administered to the cow	-	Č
a) Follicle stimulating hormone	b) Progesterone	
c) Androgen	d) Oxytocin	

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200.	Best source for dietary pr	otein for a vegetarian is:				
	a) Soya Bean	b) Gram	c) Groundnut	d) Milk		
201.	The various methods of cr	rop improvement are				
	I. selection II. Hybridization					
	III. polyploidy IV. mutati					
	V. genetic engineering	O				
	Choose the correct option					
	a) I, II, III, IV and V	b) I, II, III and V	c) II, III, IV and V	d) I, III, IV and V		
202.	Indian Agriculture Resear	•	, , ,	, , ,		
	a) Chennai	b) New Delhi	c) Bangalore	d) Shillong		
203.	Apiculture means					
	a) Rearing of honey bees	b) Rearing of silkworm	c) Rearing of lac insect	d) None of these		
204.	Ishingless is obtained from		·) ···································	.,		
2011	a) Liver of frog	b) Scales of fishes	c) Air bladder of fishes	d) Skin of shark		
205	The advantages of single of		of the bladder of hones	a) on or on arm		
200.	I. easy to grow	cen processo are				
	II. nutrient rich					
	III. high yield					
	Choose the correct option					
	a) I and II	b) I and III	c) II and III	d) I, II and III		
206	Meristem culture is practi		c) II aliu III	d) i, ii and iii		
200.	a) Somaclonal variation	b) Haploids	c) Virus-free plants	d) Slow-growing callus		
207	•		_ = -	u) Slow-growing canus		
207.	a) Sonalika	and disease resistant whe		d) Iava		
200	•	b) Kalyan Sona	c) Both (a) and (b)	d) Jaya		
208.	-	nich surrounds a cocoon is				
	a) 800 to 1200 yards		b) 8000 to 12000 yards			
200	c) 800 to 1200 feet	C PRIM	d) 8000 to 12000 metres			
209.	The objective of biofortific		AHON .			
	I. protein content and qua	ility				
	II. oil content and quality					
	III. vitamin content	1				
	IV. micronutrients and mi					
	Choose the correct option					
	a) I, II and III	b) I, II and IV	c) II, III and IV	d) I, II, III and IV		
210.	Crop improvement is poss	_				
	• •	of selection, introduction a	nd hybridisation			
	b) Selection					
	c) Scientific improvement	t of cultivated plants				
	d) Introduction					
211.	Maize grain is rich in:					
	a) Niacin	b) Thiamine	c) Tryptophan	d) Lysine		
212.	In callus culture, roots car	n be induced by the supply	of			
	a) Auxin	b) Cytokinin	c) Gibberellin	d) Ethylene		
213.	Semi-dwarf varieties of ri	ce were developed from				
	I. IR-8 II. Taichung Nat	ive-1				
	III. Jaya IV. Sonalika					
	Choose the correct option	S				
	a) I and II	b) II and III	c) I and III	d) III and IV		
214.	Percentage of proteins in	the fish meal is:				

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			opius Luududioi.
	eld revolution in 1960s was poss	ible primarily due to	
<u>-</u>	orophyll content		
	sulting in plant height reduction		
c) Quantitative t	rait mutations		
d) Hybrid seeds			
-	which chewing gum is made:		
a) Achras sapto		b) Euphorbia splender	ıs
c) Dalbergia sis		d) Butea frondosa	
217. Quinine is obtain			
a) Cinchona	b) Atropa belladona	c) Magnifera indica	d) Cedrella toona
218. The largest land			
a) Camel	b) Elephant	c) Rhino	d) Python
	carps.—Cattla, Labeo, and Cirhi		d are due to:
	ompetition among them for the fo	ood material	
	habits are different		
c) They live in d			
d) None of the a			
220. Silkworm spins			
a) From inside t	o outside	b) Outside to inside	
c) Random		d) Inside	
221. Single cell prote			
	tein extracted from pure culture		
b) Sources of mi	xed proteins extracted from pur	e or mixed culture of organis	sms or cells
•	acted from a single cell	-	
d) A specific pro	tein extracted from a single cell		
222. Potato and toma			
a) Canada	b) North America	c) South America	d) China
	lowing is not an important chara	cteristic of the green revolut	tion?
I. Mechanised ag	griculture	CHILDIA	
II. Hybrid seeds			
III. Slash and bu	rn		
Which of the abo	ove are correct?		
a) Only I	b) Only II	c) Only III	d) I and III
224. A hybrid where	the cytoplasm of two parent cell	are fused by retaining only o	one parental nucleus is called
a) Asymmetric s	omatic hybrid	b) Cytoplasmic hybrid	
c) An interbreed	1	d) Symmetric somatic ł	nybrid
225. Fibres are made	of:		
a) Parenchyma	b) Chlorenchyma	c) Sclerenchyma	d) Collenchyma
226. The deficiency o	f essential micronutrients specia	lly iron, iodine, zinc and vita	min-A in food
I. increases risk	for disease		
II. reduces ment	al ability		
III. reduces life s	pan		
Choose the corre	ect option		
a) I, II and III	b) I and III	c) Only	d) I and II
227. For producing p	rotoplasts from pant cells, which	of the following are require	d?
a) Amylase and	pectinase	b) Cellulase and protein	nase
c) Cellulase and	pectinase	d) Cellulase and amylas	se
228. The plants produ	uced from tissue culture are gene	etically identical to the origin	nal plant from which they are
grown so they a	re called		
a) Somaclones	b) Clones	c) Para clones	d) None of these

229. Which of the statement about breeding is wrong?					
a) By inbreeding purelines cannot be evolved					
b) Continued inbreeding, especially close inbreedi	ng reduces fertility and pro	ductivity			
c) Cross-breeding allows desirable qualities of two	o different breeds to be con	nbined			
d) Inbreeding exposes harmful recessive genes that	at are eliminated by selection	on			
230. Two temperate cereals, sometimes cultivated at his	igh altitude in the tropics, a	re:			
a) Avena sativa and Secale cereale	b) Zea mays and Eleus	ine coracana			
c) Panicum milaceum and Coix lachrayma	d) Sorghum bicolour a	nd Panicum milaceum			
231. Gambusia is a:					
a) Predator on mosquito larvae	b) Pest of fishes				
c) Parasite on crab	d) Pathogenic protozoa	n			
232. Sugar obtained from sugarcane is:					
a) Fructose b) Glucose	c) Sucrose	d) Galactose			
233. When cross is made between two species of the sa	me genus, then the cross is	known as			
a) Intraspecific hybridization	b) Interspecific hybridiz	zation			
c) Intergeneric hybridization	d) Intervarietal hybridi	zation			
234. Vegetables are chief source of:					
a) Fats and minerals	b) Fats and vitamins				
c) Minerals and vitamins	d) Proteins and vitamin	S			
235. The entire collection having all the diverse alleles	for all genes in a given crop	is called			
a) Gene collection b) Germ collection	c) Germplasm collection	n d) Plasma collection			
236. The chances of catching bird flu from a properly co	ooked (above 100°C) chicke	en and eggs are			
a) Very high b) High	c) Moderate	d) Nil			
237. Undifferentiated mass of plant cells grown on nutr	rient medium, is called				
a) Callus b) Bud	c) Clone	d) Scion			
238. The totipotency of a cell refers to the					
a) Flowering in a culture medium					
a) Flowering in a culture medium					
b) Development of fruit from a flower in a culture	The state of the s				
b) Development of fruit from a flower in a culturec) Development of an organ from a cell in culture	medium				
b) Development of fruit from a flower in a culturec) Development of an organ from a cell in cultured) Development of all tissues of all kinds from a ce	medium ell in a culture medium				
b) Development of fruit from a flower in a culturec) Development of an organ from a cell in cultured) Development of all tissues of all kinds from a cel239. A milk-like preparation can be made from the seed	medium ell in a culture medium				
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 	medium ell in a culture medium ds of: c) Grapes	d) Barley			
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of 	medium ell in a culture medium ds of: c) Grapes of:	,			
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available 	medium ell in a culture medium ds of: c) Grapes of: b) The population incre	ase			
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 	medium ell in a culture medium ds of: c) Grapes of:	ase			
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 241. Silk glands are modified: 	medium ell in a culture medium ds of: c) Grapes of: b) The population incre d) The better irrigation	ase facilities			
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 241. Silk glands are modified: a) Salivery glands b) Anal glands 	medium ell in a culture medium ds of: c) Grapes of: b) The population incre	ase			
 b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 241. Silk glands are modified: a) Salivery glands b) Anal glands 242. Consider the following statements 	medium ell in a culture medium ds of: c) Grapes of: b) The population incre d) The better irrigation c) Colleterial glands	ase facilities			
b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 339. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because a) The better land available c) The increased money power 241. Silk glands are modified: a) Salivery glands b) Anal glands 242. Consider the following statements I. Solid stem in wheat exhibits non-preference by statements	medium ell in a culture medium ds of: c) Grapes of: b) The population incre d) The better irrigation c) Colleterial glands	ase facilities			
b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 241. Silk glands are modified: a) Salivery glands b) Anal glands 242. Consider the following statements I. Solid stem in wheat exhibits non-preference by statements II. In cotton, smooth leaf and absence of nectar rep	medium ell in a culture medium ds of: c) Grapes of: b) The population incre d) The better irrigation c) Colleterial glands stem sawfly oel bollworms	ase facilities d) Mushroom glands			
b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 241. Silk glands are modified: a) Salivery glands b) Anal glands 242. Consider the following statements I. Solid stem in wheat exhibits non-preference by statements II. In cotton, smooth leaf and absence of nectar regulii. In maize, high aspartic acid, low nitrogen and statements	medium ell in a culture medium ds of: c) Grapes of: b) The population incre d) The better irrigation c) Colleterial glands stem sawfly oel bollworms	ase facilities d) Mushroom glands			
b) Development of fruit from a flower in a culture c) Development of an organ from a cell in culture d) Development of all tissues of all kinds from a cel 239. A milk-like preparation can be made from the seed a) Gram b) Soyabean 240. Increase in food production is necessary because of a) The better land available c) The increased money power 241. Silk glands are modified:	medium ell in a culture medium ds of:	ase facilities d) Mushroom glands from stem borers			
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245. Mule is produced from a cross betweenA and	B Here A and B refers to	
a) A-female horse; B-male donkey	b) A-male horse; B-femal	e donkey
c) A-male horse; B-female horse	d) A-male donkey; B-fem	ale donkey
246. Triticum aestivum, the common breed of wheat is		
a) Triploid with 21 chromosomes	b) Tetraploid with 28 ch	romosomes
c) Hexaploid with 42 chromosomes	d) Diploid with 14 chrom	iosomes
247. In male and female animals of two different rela	ated species are mated	
a) Random breeding	b) Artificial insemination	1
c) Controlled breeding	d) Interspecific hybridisa	ntion
248. Central Silk Research and Training Institute (CSRTI) is located at:	
a) Assam	b) Bahrampur	
c) Tarai region	d) Shanthivials (Mysore)	
249. Water Buffalo is:	, ,	
a) European breed of buffalo that prefers living in w	vater for most of the day	
b) Buffalo like animal living in rivers	·	
c) Llama		
d) Buffalo		
250. In lac insect, lac is produced from:		
a) Abdominal glands	b) Salivary glands	
c) Skin glands of abdomen	d) None of the above	
251. Mode of nutrition of explant before organogenesis i		
a) Photosynthetic b) Autotrophic	c) Heteromorphic	d) Heterotrophic
252. Most commercial silkworm strain is:	·)	.,
a) Uni-voltine b) Vi-voltine	c) Multi-voltine	d) All of these
253. Which among the following is the real product of ho		a) in or enese
a) Pollen b) Bee wax	c) Honey	d) Propolis
254. One of the alternate sources of protein for animal an		uj i ropons
a) Single cell protein b) Proteomix	c) Double cell protein	d) All of these
255. The fibre crop occupying the largest area in India is		a) in or these
a) Jute b) Flax	c) Cotton	d) Simbal
256. On the basis of unity, Nagapuri buffaloes are catego	,	a) Simbai
a) Grazers b) Dual purpose	c) Draught cattle	d) Milkers
257. The fruits of the plants which yield oil and fibres:	c) Draught eathe	uj Mikers
a) Phoenix sylvestris b) Areca catechu	c) Metroxylon safus	d) Cocos nucifera
258. In mutation breeding, mutation are induced by usin		aj cocos nacijera
a) Gamma b) X-rays	c) UV-rays	d) All of these
259. The genetic ability of a plant to prevent pathogen fr	•	-
a) Resistance b) Prevention	c) Pathology	d) None of these
260. The Indian carp is:	c) rathology	uj None of these
a) Scoliodon b) Labeo	c) Torpedo	d) Pristis
261. Poultry includes:	c) Torpedo	u) i risus
a) Fowl, duck, tortoise and turkey	h) Four duck pigoon and	d tortoico
	b) Fowl, duck, pigeon and	
c) Duck, fowl, tortoise and turtle	d) Fowl, duck, turkey and	ı pigeon
262. Phytotron is	1-) 1 1 6 1	
a) A controlled condition chamber	b) A leaf culture process	
c) A special culture of plants	d) A root culture process	
263. MOET stands for		
a) Multiple Ovulation Embryo Transfer technology		
b) More Ovulation Embryo Transfer technology		
c) Multiple Ovulation Embryo Test technology		

d) None of the above		•
264. Nosemia sp. a protozoan produces diseases in:		
a) Silk moth	b) Honey bee	
c) Both silk moth and honey bee	d) Lac insect	
265. Colchicine brings about:		
a) Gene mutations	b) Chromosome aberrat	ions
c) Quick replication	d) Duplication of chrome	osomes
266. Central Sugarcane Breeding Research Institute is si	tuated at:	
a) Coimbatore b) Lucknow	c) Delhi	d) Bhopal
267. Silk glands of silkworm are modified:		
a) Crop glands b) Salivary glands	c) Gastric glands	d) Intestinal glands
268. Consider the following statements		
I. The honey bees are pollinators of many crop spec	ries such as sunflower, <i>Bra</i>	ssica, apple and pear
II. Keeping beehives in crop fields during flowering	period increases both crop	yield and honey yield
III. A successful bee keeping requires management	of beehives during differer	nt seasons
Which of the statements given above are correct?		
a) I, II and III b) I and II	c) II and III	d) I and III
269. Which of the following diseases in poultry is caused	l by nutritional deficiency?	
a) Perosis b) Fowl pox	c) Coryza	d) Aspergillosus
270. Hereditary variations can be got with the help of:		
a) X-rays b) DDT	c) Auxin	d) Gibberellin
271. Eri silk is produced by:		
a) Bombyx mori b) Attacus ricini	c) Anthenea roylei	d) Anthenea paphia
272. Consider the following statements		
I. Semen is preserved for artificial insemination by	heating	
II. Most common bee species reared in India is Apis	indica	
III. Example of interspecific hybridization is mule		
Which of the statements given above is/are not cor		
a) Only I b) Only II	c) I and II	d) II and III
273. Genetic diversity of agricultural crops crops is threa		
a) Extensive intercropping	b) Intensive use of fertil	izers
c) Introduction of high yielding varieties	d) Intensive use of biope	
274. In high milk giving breeds of females and high o	quality meat giving bulls ha	ive been breed successfully
to obtain a better breed in short time		
a) MOET	b) Artificial insemination	n
c) Cross-bree ding	d) Induced mutation	
275. The botanical name of popcorn is:		
a) Zea mays var. everta	b) Zea mays var. tunica	
c) Zea mays var. indentata	d) Zea mays var. amyla	cea
276. Most common honey bee species in India		
a) <i>Apis indica</i> b) <i>Apis florea</i>	c) <i>Apis mellifera</i>	d) <i>Apis dorsata</i>
277. Pathogen free plants are obtained from:		
a) Callus culture b) Embryoid culture	c) Shoot apex culture	d) Root apex culture
278. When breeding is between different breeds, it is cal		
a) Inbreeding b) Outbreeding	c) Outcrossing	d) Cross breeding
279. The new sugar cane varieties had the qualities like		
I. high yield		
II. thick stem		
III. high sugar content		
IV. ability to grow in North India		

Choose the correct option		•
a) I, II and III b) II, III and IV	c) I, II and IV	d) I, II, III and IV
280. Single cell proteins provide food rich in	cj i, ii and iv	uj i, ii, iii anu iv
I. protein		
II. minerals		
III. fats		
IV. carbohydrates and vitamins		
Choose the correct option a) I and III b) II, III and IV	a) I III and IV	d) I II III and IV
	c) I, III and IV	d) I, II, III and IV
281. Breeding crops for improved nutritional quali	- -	1) p::-:
a) Biomagnification b) Biome	c) Biofortification	d) Biomining
282. Maize grain is deficient in:	L) Nicola and this min	_
a) Tryptophan and lysine	b) Niacin and thiamin	
c) Lysine and thiamine	d) Tryptophan and thi	iamine
283. Crop plants grows in monoculture are:	12.61	
a) Low in yield	b) Characterised by po	_
c) Free from intraspecific competition	d) Highly prone to pes	sts
284. Cassava is a:	2.5	12.77
a) Stem vegetable b) Root vegetable	c) Leaf vegetable	d) Flower vegetable
285. Earliest animal to be domesticated was:		
a) Goat b) Dog	c) Horse	d) Cat
286. Rinderpest is the disease of:		
a) Cattle b) Poultry	c) Fish	d) Camel
287. Composite fish farming is called:		
a) Polyculture b) Pisciculture	c) Monoculture	d) None of these
288. Embryo culture is employed in:	1	
a) Clonal propagation	b) Induction of somac	
c) Overcoming hybridisation barriers	d) Developing virus fr	ee plants
289. The yellow colour of cow milk is due to the pr	esence of	
a) Carotene b) Albumin	c) Casein	d) Lactose
290. Main composition of lac is:		
a) Glue, pigment and sugar	b) Wax, pigment and g	glue
c) Resin, pigment, wax and glue	d) Resin, sugar and wa	ax
291. Quite often pulse-crops are not manured with	nitrogenous fertilizers. It is s	o because:
a) These do not require nitrogen	b) These do not need	nitrates or nitrites
c) These have nodulated roots	d) These do not have i	nodulated roots
292. Fisheries includes rearing, catching, sellings, o	of	
a) Fishes b) Molluscs	c) Crustaceans	d) All of these
293. The wax gland in honey bee is found in		
a) Worker and queen b) Queen	c) Drons	d) Worker
294. Inbreeding is	•	•
a) Crossing between two unrelated species		wo closely related individuals
	within the same bro	eed
c) Crossing between different breeds	d) None of the above	
295. When the breeders wants to incorporate desir	red characters into the crop pl	lants, they should
I. increase yield and improve		
II. increased tolerance to salinity		
III. resistance to pathogen viruses, fungi and b	pacteria	
IV. increased tolerance to insect pests		
Choose the correct option		

				opius zudeation
	a) I and II	b) I, II and III	c) II, III and IV	d) All of these
296	. Main protein type found i) DI	15.7.1. 1. 11.
207	a) Ovalbumin	b) Canalbumin	c) Phosvitin	d) Lipovitellin
297.		-		eties or species of plant on
		m <i>in vitro</i> to develop a son		
	a) Somatic hybridization		b) Cross hybridization	
	c) Intravarietal hybridiza		d) Interspecific hybridizat	tion
298	. Pisciculture is rearing and	-		D 0 1
	a) Fishes	b) Birds	c) Reptiles	d) Cattles
299	=	sible for development of di	sease in a plant?	
	I. Susceptible plant			
	II. Aggressive pathogen	_		
	III. Excess amount of ferti			
	IV. Conductive environme			
	Choose the correct option			
	a) I, II and III	b) I, II and IV	c) II, III and IV	d) I, III and IV
300	. Which of the following is			
	a) Hilsa	b) Catla	c) Pomfret	d) Mackerel
301		s of poultry farm managen	ient are given below	
	I. selection of disease free			
	II. proper and safe conditi			
	III. proper food and water			
	IV. temperature of poultry	y shed should be high for e	gg laying	
	Which of the statement gi	h is false?		
	I II III IV			
	a) T T T F	b) F T T T	c) T T F T	d) T F T F
302	. SCP production is based o	n industrial effluents so it	helps to minimize	
	a) Environmental pollution	neoliic FDLIC	b) Production of diseased	crop
	c) Nutrient medium for ti	ssue culture	d) All of the above	
303	. SCP reduces the pressure	on agricultural production	systems for the supply of t	he required
	a) Vitamins	b) Carbohydrate	c) Minerals	d) Proteins
304	. The most used domestica	ted animal by Eskimos is:		
	a) Cow	b) Sheep	c) Goat	d) Husky
305	. Which of the following me	ethods is/are used in recov	ery of healthy plants from (diseased plants?
	a) Embryo culture	b) Meristem culture	c) Suspension culture	d) Anther culture
306	. Poultry includes			
	a) Chicken	b) Duck	c) Turkey	d) All of these
307	Scientists are trying to ge	t hybridization between to	mato and potato. The most	accurate name of the
	recusant would be			
	a) Topato	b) Topemo	c) Potamo	d) Pomato
308	. Micropropagation is			,
	a) Propagation of microb	es <i>in vitro</i>	b) Propagation of plants i	n vitro
	c) Propagation of cells <i>in</i>		d) Growing plants on sma	
309			es of all the genes of a crop i	
	a) Herbarium	b) Germplasm	c) Gene library	d) Genome
310	. Hybrid breed of cattle is:	,	-yy	,
	a) Sunandini	b) Holstein	c) Brown Swiss	d) Kankrej
311	. Select the false statement	-	,	,
		nd bajra have been successi	fully developed in India	
			India, but had poor sugar o	ontent and vield
	,	J 7 J	, 1	<i>y</i>

c) Agriculture accounts for approximately 33%	of India's GDP and employs	nearly 62% of the population
d) None of the above		
312. The term 'totipotency' refers to the capacity of		
a) Bud to generate whole plant	b) Cell to generate wh	-
c) Seed to germinate whole plant	d) Cell to enlarge in siz	ze
313. Which of the following is resistance to leaf and	strip rust	
a) Himgiri b) Pusa Komal	c) Pusa Sadabahar	d) Pusa Shubra
314. Removal of anther of some flowers during plan	t breeding is	
a) Emasculation	b) Anthesis	
c) Pollination	d) For collection of po	
315. The animal close to human beings which is clor	-	
a) Gorilla b) Chimpanzee	c) Gibbon	d) Monkey
316. Majority of people suffer from protein, vitaming	s and micronutrient deficiend	cies. Their food does not
contain essential micronutrients specially		
I. iron		
II. iodine		
III. zinc		
IV. vitamin-A		
Which of the above are correct?		
a) I, II and III b) I, III and IV	c) II, III and IV	d) I, II, III and IV
317. In plant biotechnology, PEG is used in		
a) Protoplast isolation	b) Cell culture prepara	ation
c) Protoplast fusion	d) Hardening	
318. Aim of plant breeding is to:	1	
a) Control pollution	b) Keep soil fertile	
c) Produce improved varieties	d) To maintain wild pl	ants
319. Choose the scientific name of a microorganism	which produces high quality	of protein
a) <i>Spirulina</i> b) <i>Chara</i>	c) Agar-agar	d) <i>Ephedra</i>
320. Disease resistant crop is obtained by	OCHILOIT	
a) Crossing with new varieties	b) Crossing with wild	varieties
c) Injecting with organic compounds	d) None of the above	
321. More than 70% of livestock population is found	l in	
a) Denmark b) India	c) China	d) Both (b) and (c)
322. Which of the following is the pair of biofertilize	ers?	
a) Azolla and BGA	b) Nostoc and legume	
c) Rhizobium and grasses	d) Salmonella and E.co	oli
323. Haploid plantlets can be produced by		
a) Pollen culture b) Cotyledon culture	e c) Embryo culture	d) Meristem culture
324. An exotic breed of cow is:		
a) Ongole b) Friesian	c) Halliker	d) Deoni
325. Surrogate mother is:		
a) Mother without lactation		
b) Future mother with embryo implanted from	another	
c) Carrying several embryos at one time		
d) Artificially inseminated female		
326. Bactrian camel is characterised by:		
a) Two humps and long neck	b) Two humps and lor	ng limbs
c) Two humps and thick coat	d) Single hump and th	ick coat
327. Inland fisheries is referred to:		
a) Culturing fish in freshwater	b) Trapping and captu	ring fishes from sea coast

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c) Deep sea fishing	d) Extraction of oil from f	ishes
328. Rearing of honey bees is practiced for obtaining		
a) Honey b) Wax	c) Honey and wax	d) None of these
329. Sugars extracted from sugarcane and sugar beet diff	er in:	
a) Taste		
b) Colour		
c) C^{13}/C^{12} ratio		
d) The one extracted from sugarcane is sucrose is w	hile from sugarbeet is fruct	cose
330. Some common marine fishes are	J	
a) Hilsa b) Mackerel	c) Pomfrets	d) All of these
331. Breeding of crops with higher levels of vitamins and	•	-
a) Plant breeding b) Biofortification	c) Both (a) and (b)	d) Crop protection
332. Castor oil is obtained from:		, 11
a) Brassica compestris	b) Ricinus communis	
c) Helianthus annus	d) Arachis hypogea	
333. Cellular totipotency is demonstrated by	71 0	
a) All eukaryotic cells	b) Only bacterial cells	
c) Only gymnosperm cells	d) All plant cells	
334. In honey, the percentage of maltose and other sugar		
a) 9.2 b) 8.81	c) 10.5	d) 11.2
335. Which of the following is a correct match between co		
Crops Variety Resistance to diseases	р, тапто с да постоя с с с с с с с с с с с с с с с с с с с	
a) Wheat Himgiri White rust		
b) Brassica Pusa sadabahat Black rot		
c) Cowpea Pusa komal Bacterial blight		
d) Chilli Pusa swarnim Chilly mosic virus		
336. Which one is correct about Atlas 66?		
a) It has high protein content	b) It has been used as a d	onor for improving
CPLUS EDUC	cultivated wheat	
c) both (a) and (b)	d) None of the above	
337. Which one of the following mollusca groups is prima	•	ation?
a) Monoplacophorans b) Cephalopods	c) Gastropods	d) Pelecypods
338. Semi-dwarf rice varieties were introduced in India	, ,	<i>y v</i> 1
a) 1966 b) 1965	c) 1967	d) 1969
339. Cultivation of fishes in artificially prepared ponds		,
a) Aquaculture b) Pisciculture	c) Vermiculture	d) Agriculture
340. Which of the following is the sequence of cultivation	-)
a) Fry–fingerlings–spawn–Adult	b) Spawn–fry–fingerling	rs—adult
c) Adult—spawn—fingerlings—fry	d) Fingerlings—fry—spaw	
341. The composition of cotton fibre is:)	
a) Cellulose b) Callose	c) Chitin	d) Pectin
342. Triticum aestivum is:		a) I com
a) Diploid b) Triploid	c) Haploid	d) Hexaploid
343. Main product of poultry is:	e) Haptora	a) Honapiola
a) Eggs b) Chicken	c) Meat	d) Eggs and meat
344. Elephants are sought after for:	c) Meat	a) 1565 and meat
a) Skin b) Hair	c) Meat	d) Ivory
345. Maximum contribution to the total milk production		- ·
a) Cows b) Buffaloes	c) Camels	d) Goat
346. The practices concerned with the improvement in a	•	,

a) Management of farm and farm animals	b) Animals breeding	•
c) Both (a) and (b)	d) None of the above	
347. Exotic breeds:	1277 1 1111	
a) Require specific environment	b) Hardy and high yielding	ng
c) Are sturdy	d) Take less food	
348. Hatching net is called:		-
a) Nursery kind b) Production pond	c) Stocking pond	d) Hapa
349. Which of the following has been recently used for in	icreasing productivity of su	ıper milk cows:
a) Artificial insemination by a pedigree bull only		
b) Superovulation of a high production cow only		
c) Embryo transplantation only		
d) A combination of superovolation, artificial insem	ination and embryo transp	lantation into a carrier cow
(surrogate mother)		
350. Several South Indian states raise 2-3 crops of rice ar	nnually. The agronomic fea	ture that makes this
possible is		
a) Shorter rice plant		
b) Better irrigation facilities		
c) Early yielding rice variety		
d) Disease resistant rice variety		
351. Crosses involving plants of the same variety are:		
a) Intravarietal b) Interspecific	c) Intervarietal	d) Intrageneric
352. Animal breeding is producing improved breeds of	.A by improving theirB	through selective mating.
Here A and B refers to	>	
a) A-domesticated animals, B-phenotype		
b) A-wild animals, B-genotype		
c) A-domesticated animals, B-genotype		
d) A-wild animals, B-phenotype		
353. 250 g of <i>Methylophilus methylotrophus</i> bacterium	and the second s	
a) 15 tonnes of proteins	b) 25 tonnes of proteins	
c) 35 tonnes of proteins	d) 50 tonnes of proteins	
354. Aquaculture includes:		
a) Freshwater fishing b) Brackish water fishes	c) Marine fishery	d) All of the above
355. The amount of protein per 100 g (without water, ap	proximately 2 eggs) is:	
a) 11.9 b) 20.1	c) 16	d) 45
356. Parthenogenesis is commonly found in:		
a) Ants, bees and wasps	b) Ascaris, earthworm ar	nd liver fluke
c) Frogs, fishes and foxes	d) Star fish, Jelly fish and	cuttle fish
357. Green revolution depended mainly on plant breeding	ng techniques for high yield	ling and disease resistant
varieties of		
a) Wheat b) Rice	c) Maize	d) All of these
358. Crustacean fishery is connected with exploitation of	:	
a) Oysters and crabs b) Mussels and squids	c) Shell and cuttle fish	d) Lobster and prawn
359. The art and science of combining ideas, facilities, pro-		r to produce and market a
worth, while produce or service successfully called		•
a) Marketing b) Improvements	c) Management	d) None of these
360. The domesticated birds used for food or for their eg		
a) Poultry b) Egg farming	c) Apiculture	d) Dairy farming
361. In poultry birds, nasal and eye discharge with foul s		
swollen eyes are the symptoms of	. , , , , , , , , , , , , , , , , , , ,	
a) Chronic respiratory disease	b) Infectious coryza dise	356

c) Brooder pneumonia disease	d) Marck's disease			
362. Which type of silk is obtained from Bombyx mori?				
a) Reeled silk b) Muga silk	c) Arandi silk	d) Tasar silk		
363. A hybrid variety produced, having more meat produ	icing capacity, in chickens i	is:		
a) Broilers b) Plymoth rock	c) White Cornish	d) New Hemisphere		
364. Somaclonal variations are obtained through:				
a) Chemical mutagens b) Gamma rays	c) Tissue culture	d) Amphimixis		
365. The principle source of sugar is/are:				
a) Sugarcane b) Sugar beet	c) Palm	d) Both (A) and (B)		
366A andB cover more than 70% of the world's	livestock population but co	ontribute only 25% to the		
world farm production. Here A and B refers				
a) A-India; B-China b) A-US; B-China	c) A-India; B-US	d) A-US; B-Brazil		
367. Which of the following terms is used to describe the	component isolated from	a plant, for <i>in vitro</i>		
culturing in the specific medium?				
a) Callus b) Embryoid	c) Synthetic seeds	d) Explant		
368. The draught breeds of cattle include:				
a) Malvi, Nageri and Hallikar	b) Malvi, Nageri and Ong	ole		
c) Nageri, Ongole and Haryana	d) All the above			
369. Cryopreservation is:	,			
a) Preservation of living being in chemicals	b) Preservation of very lo	ow temperature		
c) Preservation through exposure to irradiation	d) Preservation at high to	· · · · · · · · · · · · · · · · · · ·		
370. The name of the sheep which was cloned for the firs	=	•		
a) Dolly b) Polly	c) Molly	d) Holly		
371. A disease of poultry which reduces immunity and sp		•		
a) Ranikhet disease b) Aflatoxicosis	c) Thrush	d) Marck's disease		
372. For production of haploids, we culture	,			
a) Shoot tip b) Anther	c) Root tip	d) None of these		
373. Selection is a method of:	'ATION			
a) Cytology b) Plant physiology	c) Plant breeding	d) Genetics		
374. Examples of high-yielding and disease resistant who	,	ed in India in		
a) 1961 b) 1962	c) 1963	d) 1964		
375. Lac is produced from:	,			
a) Only males	b) Only females			
c) More females than males	d) More males than fema	ıles		
376. Choose the flowers of which plant are not pollinated				
a) Sunflower b) Apple and pear	c) <i>Brassica</i>	d) All of these		
377. Somaclones are obtained by	,			
a) Tissue culture b) Plant breeding	c) Irradiation	d) Genetic engineering		
378. The largest wheat producing country is:	,	, ,		
a) India	b) United States of Amer	ica		
c) Mexico	d) Japan			
379. Microbes like Spirulina, Methylophilus methylotro	, , <u>,</u>	strial scale as sources of		
good	1 0			
a) Fat b) Carbohydrate	c) Protein	d) All of these		
380. The world's highly prized wool yielding 'Pashmina b	•	.,		
a) Sheep	b) Goat			
c) Goat-sheep cross	d) Kashmir sheep-Afghar	n sheep cross		
381. Shakti, Rattan and Protina are three important lysin		*		
a) Rice b) Pulses	c) Wheat	d) Maize		
382. An explant is	,	,		

a) Dead plant			
b) Part of the plant			
c) Part of the plant us	ed in tissue culture		
=	at expresses a specific gene		
383. High content of lysine			
a) Wheat	b) Apple	c) Maize	d) Banana
_	ng by artificially inducing mu	•	
a) Artificial breeding	b) Chemical breeding	c) Synthetic breeding	d) Mutation breeding
-	eds of cattle can be overcome		,
a) Cross breeding witl		b) Good nourishment	
c) Stilbesterol		d) Gonadotropin	
	le, when a cow is crossed to a		s vielding more milk than its
mother?	,		7
	nes for high yielding milk are	e inherited, only from the fe	emale parent
_	nes for high yielding milk ard		-
,	nes for high yielding milk are	•	
	gh mutation achieved more r		_
387. Semi-dwarf wheat wa	=	01 801100 101 111811 711	
	e for Wheat and Maize Impr	ovement Brazil	
_	e for Wheat and Maize Impro		
*	e for Wheat and Rice Improv		
	e for Wheat and Gram Impro	_	
388. Pisciculture has bright			
a) Considerable dema		b) Good response of nat	ive fishes to culture
c) Abundance of cultiv		d) All of these	The figures to curtain
	nosaic virus in bhindi was tra	•	es and resulted in new
variety of A. esculenti			
a) Golden kranti	b) Sonalika	c) IR-8	d) Parbhani
	hybridisation and selection		
variety of:	,	8	1 6
a) Chilli	b) Maize	c) Sugarcane	d) Wheat
391. Pearl producing India	*	.,	,
•	b) Ostrea indica	c) Pinctada vulgaris	d) Ostrea vulgaris
,	wing is a viral disease of the	,	.,
a) Coryza	b) New castle disease	c) Pasteurellosis	d) Salmonellosis
, ·	provement by MOET genera	•	
	ectionE ova can be produ	•	
-	at a time. Then each embryo	= = = = = = = = = = = = = = = = = = =	
paragraph refers		1	
	oermatogenesis, D-hormone,	E-more, F-one, G-mother	
	vulation, D-hormone, E-mor		other
	vulation, D-enzyme, E-more,		
•	vulation, D-chemical, E-more		
394. MOET is method of:	· ·, - · ·, - · ·	-,,	
a) Fish cultivation		b) Cloning in sheep	
c) Hybridization in ca	ttle	d) Birth control in huma	nns
	lityA and is poor inB		
	als b) A-protein; B-fats	c) A-fats; B-protein	d) A-lipid; B-protein
396. The term Plantain refe		-,, 2 protom	-, F.w, 2 Process
	h) Fully rine hanana	c) Banana nudding	d) None of the above

				opius zuuduti				
397	The Indian tiger prawn is) M	1) n 1				
200	a) Penaeus indicus	b) Penaeus monodon	c) Macrobrachium	d) Palaemon				
398	Lac is produced as:		1-) C					
	a) Faeces of lac body		b) Secretion from body	Cl J				
200	c) Excretion from body	'	d) Excess from oozing out	t of body				
399	. Which of the following is							
	a) Quantitative and quality		.l. l l.: -l Cl.:					
	b) Production involves utilization of organisms which has high rate of biomass production and growth c) 250 g <i>Methylophilus methylotrophus</i> can produce 20 tonnes of protein per day							
				aay				
400	d) Can be obtained from both unicellular and multicellular organisms 400. <i>Pennisetum</i> and <i>Sorghum</i> are of African origin, while rice originated in:							
400	-	=	-	d) Africa				
101	a) China	b) India	c) America	d) Africa				
401	Examples of crustaceans		a) Dath (a) and (b)	d) Nama afalaasa				
402	a) Prawns	b) Crabs	c) Both (a) and (b)	d) None of these				
402		Saccharum of ficinarum a		J) D:				
402	a) Sugar cane	b) Maize	c) Wheat	d) Rice				
403	. Classical plant breeding in							
	I. crossing hybridization of	=						
	<u>-</u>	roduce plants with desirable	le characters of high yield					
	III. nutrition							
	IV. resistance to disease							
	Choose the correct option		a) II III and IV	d) I II III and IV				
101	a) I, II and III	b) I, III, and IV	c) II, III and IV	d) I, II, III and IV				
404	. Sugar is extracted besides		a) Dank	d) Calanaia				
405	a) Potato	b) Sweet-potato	c) Beet	d) Colocasia				
405	-	plood pressure is obtained						
	a) Solanum nigrum	C FRIII	b) Aconitum	_				
106	c) Centella asiatica . Huskies are:	JPLUS EDUC	d) Rauwolfia serpentino	ι				
400		h) Danlarra	a) Thisk seets did as	d) Water buffeless				
407	a) Yaks	b) Donkeys	c) Thick coated dogs	d) Water buffaloes				
407	_		powdery mildew were inti					
100	a) Hybrid vigour . Shagreen is obtained fron	b) Plant breeding	c) Hetrosis	d) Mutation				
400	a) Dried skin of shark	b) Skin of codfish	c) Air bladder of fishes	d) None of the above				
400	. Which of the following is	-	c) All blauder of fishes	d) None of the above				
400	a) Apiculture – Honey be		b) Pisciculture – Silk moth	1				
	c) Sericulture – Fish	5	d) Aquaculture – Mosquitose					
<i>1</i> .10). Milk yield is primarily dependent on the		uj Aquaculture – Mosquit	036				
710	a) Quality of breeds	b) Quality of milk	c) Both (a) and (b)	d) None of these				
<i>1</i> .11	, ,	der which vegetable was a		u) None of these				
711	a) Potato and Tomato	dei willeli vegetable was a	b) Simla mirch and Brinja	1				
	c) Maize and chichinda		d) Bitter gourd	1				
412	-	ng types of silk is being pro	duced extensively in South	India?				
712	a) Eri	b) Mulberry	c) Tussar	d) Muga				
1.13	•	ant source of food and fode	•	u) Muga				
113	a) Algae	b) Fungi	c) Cereals	d) Gymnosperms				
<u>4</u> 1 <i>1</i>	. The scientific name of Baj		c _j dereals	aj ayimiosperiiis				
717	a) Sorghum vulgare	11 a 15.	b) Corchorus capsularis					
	c) Gossypium herbaceur	n	d) Pennisetum typhoides	o.				
415	. Macaroni is obtained from		a) i cintiscium typhotue.	,				
110	i macai oni is obtailicu II Ul	11.						

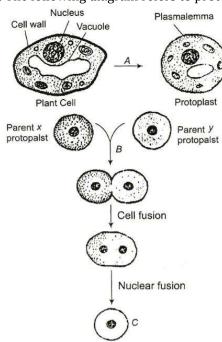
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				Opius Luucution			
	a) Oryza sativa		b) Sorghum vulgare				
	c) Triticum durum		d) Ricinus communis				
416	16. The management of animals for milk and its products for human consumption is called						
	a) Dairying		b) Poultry				
	c) Cattle farming		d) Livestock improvemer	nt			
417	. To isolate protoplast, one	needs					
	a) Pectinase	b) Cellulase	c) Both (a) and (b)	d) Chitinase			
418	. The green alga rich in pro	tein used as food supplem	ents even by space travelle	ers is			
	a) Chlamydomonas	b) <i>Volvox</i>	c) Spirogyra	d) Spirulina			
419	. Consider the following sta	atements which of them ar	e the advantages of tissue o	culture/micropropagation			
	I. a large number of plants can be grown in short time II. disease free plants can be developed from diseased plants						
	III. seedless plants can be	multiplied					
	IV. somatic hybrids can be	e raised by tissue culture, v	where sexual hybridization	not possible			
	Choose the correct option	=	·	-			
	a) I, II and III	b) II, III and IV	c) I, II and IV	d) I, II, III and IV			
420	5	•	age annual milk yield per c	•			
	a) India	b) Pakistan	c) Netherlands	d) England			
421	. Which of the following pa		-	, 8			
	a) Oysters and crabs	b) Mussels and squids	c) Shells and culttle fish	d) Lobster and prawn			
422	. Consider the following sta	•	-,	,			
	=	reeding may be used for co	mmercial production				
			e used immediately or can	be frozen for later use			
				ition and multiple ovulation			
	embryo transfer technolo			F			
	Which of the statements g						
	a) I and II	b) I and III	c) II and III	d) I, II and III			
423	. Pulses belong to the famil		LACITAL				
	a) Leguminosae	b) Gramineae	c) Cruciferae	d) Compositae			
424	. The green revolution in I	,	-,	,			
	a) Exploitation of high yie	-					
	b) Intensive cultivation	rumg various					
	,	zer, pesticides etc. facilitie	95				
	d) All the above	zer, pesticiaes etc. identitie	.5				
425	. The fishery does not inclu	ide the rearing catching a	nd processing of				
123	a) Crabs and corals	ide the rearing, catelling at	b) Squids and lobsters				
	c) Aquatic plants and anim	mals	d) All of the above				
126	. Bird flu is caused by	illais	uj Ali oi tile above				
720	a) Fungus	b) Bacteria	c) Protozoa	d) Virus			
127	. The host crop plants may		-	u) vii us			
44/	I. morphological characte	=	is due to the				
	II. biochemical characteri						
	III. physiological characte						
	Choose the correct option		-) I I III	111 11 1 (5			
420	a) I and II	b) II and III	c) I and III	d) I, II and III			
428	. Rice, maize, sorghum and			4) Cald:			
420	a) Temperate region b) Tropics c) North pole d) Cold regions						
429. When breeding is between the unrelated animals, including individuals of the same breed but having no common ancestors for 4-6 generations or between different breeds or different species, it is called							
		o generations or between o		t species, it is called			
	a) Outbreeding		b) Inbreeding				

c) inbreeding depression

d) Hybridization

430. The following diagram refers to protoplast fusion



Here A, B and C refers to

- a) A-Cellulase and bactinase, B-Polyethylene glycol, C-Somatic hybrid cell
- b) A-Pectinase, B-Cellulase, C-Zygotic cell
- c) A-Proteinase, B-Polyethylene glycol, C-Somatic hybrid cell
- d) A-Cellulase, pectinase, B-Proteinase, C-Germ cell
- 431. Which of the following crop plants is not matching as correct pair with its variety
 - I, Chili Pusa Sadabahar
 - II. Flat bean Pusa stem-2
 - III. Rape seed Pusa Gaurav
 - IV. Cauliflower Pusa Shubhra
 - V. Cow pea Pusa Komal
 - VI. Wheat Pusa A-4

Choose the correct option

- a) V
- b) VI 432. Part of the plant, which is cultured to obtain virus free clones is

d) I

- a) Leaf b) Root tip

- c) Short tip
- d) Embryo

- 433. Which one of the following is a viral disease of poultry?
 - a) Bird flu
- b) Swine flu
- c) Fowl cholera
- d) Spirochaetosis
- 434. Given below are a few statements regarding somatic hybridisation
 - I. Protoplasts of different cells of the same plant can be fused
 - II. Protoplasts from cells of different species can be fused
 - III. Treatment of cells with cellulose and pectinase is mandatory
 - IV. The hybrid protoplast contains characters of only one parental protoplast

Choose the correct option

- a) I and II
- b) I and I
- c) II and III
- d) III and IV

- 435. Semi-dwarf wheat was developed by
 - a) Norman E Borlaug
- b) MS Swaminathan
- c) WY Cheung
- d) Fontana

- 436. Single cell protein reduces
 - a) Environment pollution

b) Greenhouse effect

c) Global warming

d) Production and growth of crop

437	. The process which results	in the identification of sup	perior males and superior fe	emales of the same breed				
	a) Inbreeding	b) Outbreeding	c) Outcrossing	d) None of these				
438	. The species which yield co	ommercial cotton belongs t	to the genus:					
	a) Hibiscus	b) Abutilon	c) Sida	d) Gossypium				
439	A andB were crossed to obtained sugarcane varieties having desirable qualities and ability to grant							
	in the sugarcane areas of North India. The most appropriate option for A and B is							
	a) A- <i>Saccharum procerum</i> ; B- <i>Saccharum robustum</i> b) A- <i>Saccharum barberi;</i> B- <i>Saccharum robustum</i>							
	c) A- <i>Saccharum spontanum;</i> B- <i>Saccharum</i> barberi							
	d) A-Saccharum barberi; I	B- <i>Saccharum officinarum</i>						
440	. Some common fresh wate	r fishes are						
	a) Catla	b) Rohu	c) Common carp	d) All of these				
441	. Taichung native-the dwar	f rice variety in India is a n	ative of:					
	a) Japan	b) Philippines	c) Taiwan	d) Mexico				
442	. Silk, honey and lac are:							
	a) Secretory substances o	f insects	b) Secretory substances of	f plants				
	c) Artificial chemicals		d) All of the above	•				
443	. Which of the following is i	nsect pest resistance?						
	a) Pusa Gaurav	b) Pusa Sem-2	c) Pusa Sem-3	d) All the above				
444	. Molluscs are also called as		,	,				
	a) Ray fish	b) Golden fish	c) Electric fish	d) Shell fish				
445	. To meet the demands of the	•	tion of a large number of pl	•				
		and horticulture industry						
	a) Somatic hybridization	31	b) Micropropagation					
	c) Hybridoma technology		d) Somaclonal variation					
446		obtaining honey and bee w	•					
	a) Pisciculture	b) Sericulture	c) Apiculture	d) Aquaculture				
447	. The word poultry is used		'ATION	, ,				
	a) Wild birds	b) Domestic bird	c) Both (a) and (b)	d) All of these				
448	. Who gave the idea that ev	ery plant cell is totipotent?						
	a) PR White	b) EC Cocking	c) FC Steward	d) G Haberlandt				
449	. Lac is a:	, c						
	a) Plant product	b) Mineral product	c) Synthetic product	d) Animal product				
450	. Edible aquatic animals are			•				
	a) Crab	b) Lobster	c) Oyster	d) All of these				
451	. Which of the following is 1	not a root vegetable?						
	a) Solanum tuberosum	C	b) Ipomoea batatas					
	c) Beta vulgaris		d) Raphanus sativus					
452	=	isease of poultry is caused	= = = = = = = = = = = = = = = = = = =					
	a) Bacteria	b) Virus	c) Fungus	d) None of these				
453	•	people deals with processo	, ,	,				
	a) Increase yield of milk		b) Improve quality of milk					
	c) Both (a) and (b)		d) Marketing of milk					
454	. Ship of desert is:		, 8					
	a) Elephant	b) Camel	c) Sheep	d) Goat				
455	. Exotic breeds are:	,	·)	.,				
a) Used for cross breeding b) Allowed to multiply and replace lo								
	c) Easy to manage	J	d) Resistant to local pests and pathogens					
456. When breeding is between animals of the same breed for 4-6 generation, it is called								
	a) Crossbreeding	b) Outbreeding	c) Outcrossing	d) Inbreeding				
				. •				

- 457. Paddy is suitable for cultivation in:
 - a) Red soils
- b) Dry soils
- c) Irrigated soils
- d) Black soils

- 458. Father of white revolution in India is
 - a) Verghese Kurein
- b) Dr MS Swaminathan
- c) Alexzander Flemming d) William Harvey

- 459. Dharwar American variety of cotton is the product of
 - a) Mass selection

b) Mutual breeding

c) Clonal selection

d) Parasexual hybridization

- 460. The scientific name of Jowar is:
 - a) Sorghum vulgare

b) Corchorus capsularis

c) Gossypium herbaceum

d) Pennisetum typhoides

- 461. The commercial jute fibers are:
 - a) Xylem fibres
- b) Cortical fibres
- c) Phloem fibres
- d) Interxylary fibres
- 462. Haploid plants are preferred over diploid plants for study of mutation because in haploids:
 - a) Culturing is easy

- b) Only dominant mutation expresses
- c) Only recessive mutation expresses
- d) All mutations express
- 463. Which of the statements is correct?
 - I. The maintenance of hives for the production of honey bees for the is called apiculture
 - II. A group of animals related by descent and similar in most characters are called a breed
 - III. The agriculture practice of breeding and raising livestock is called animal husbandry Choose the correct option
 - a) I, II and III
- b) I and II
- c) I and III
- d) II and III



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