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Dat Tim	ne :		BIOLOGY		
Mai	rks : MICROBES IN	HUMAN WELFAR	E		
	Single Cor	rect Answer Type			
1.	Jojoba contains a) C-20 to C-6 bromohydric alcohol wax and tri b) Wax c) Triglyceride d) Sterol	iglyceride			
2.	Castor oil is yielding from which of the following a) <i>Brassica compestris</i> b) <i>Sesamum indicum</i>	n c) <i>Ricinus communi</i>			
3.	A hybrid where the cytoplasm of two parent ce a) Asymmetric somatic hybrid c) An interbreed	lls are fused by retaining of b) Cybrid d) Symmetric somat			
4.	Which one of the following is being utilized as a a) Euphorbia b) Beetroot	c) Sugarcane	Indian countryside? d) Pongamia		
 5. 6. 	Powdery mildew of wheat is caused by species a) <i>Puccinia</i> b) <i>Erysiphe</i> Toddy is made byA of sap from palm tree b	c) <i>Ustilago</i>	d) <i>Albugo</i>		
7.	 a) A-fermentation; B-yeast c) A-distalation; B-yeast Which of the following belongs to free living nit I. Rhizobium II. Azospirillum III. Azotobacte 	b) A-fermentation; E d) A-distalation; B-b trogen fixing bacteria?	3-bacteria		
8.	Choose the correct option a) I and II Which one of the following is biofuel?	c) II and III	d) I, II and III		
9.	a) Wood b) Petroleum Quinine used for treatment of malarial fever is a) Atropa belladonna	b) <i>Cinchona officina</i>			
10.	c) Aconitum napellusClove oil is obtained froma) Wood of Santalumc) Flowers buds of Syzygium aromaticum	d) Rauwolffia serpenb) Leaves of Syzygiud) Rhizome of Vatev	ım aromaticum		
11.	Which role is played by <i>Lactobacillus</i> in our st a) Harmful c) Beneficial				
12.	Which one of the following is a systematic insection a) Malathion b) Parathion		d) Furadan		
13.	Choose the minor carp from the following a) <i>Cyprinus carpio</i>	b) <i>Anguilla sp</i>	•		

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c) Wheat

c) Dieldrin

14. 'Himgiri' developed by hybridization and selection for disease resistance against rust pathogens is a

b) Sugarcane

b) BHC

c) Labeo bata

15. The pesticide most persistent in the soil is

variety of a) Maize

a) DDT

d) Ctenopharyngodon idella

d) Chilli

d) Baygon

16.	Besides	dung, the	e weed tha	t can be us	ed in biogas	production is	
	a) <i>Hydri</i>	illa				b) <i>Solanum nigrum</i>	
	c) Eichh	ornia cra	assipes			d) <i>Parthenium Hyste</i> .	rophorus
17.	Which o	ne of the	following	is a petrole	eum plant?		
	a) Euph	orbia	ŀ	o) Potato		c) Sugarcane	d) Maize
18.	An orgai	nism use	d as biofer	tiliser for r	aising any le	egume crop is	·
	a) <i>Nosta</i>			o) <i>Anabaer</i>		c) <i>Clostridium</i>	d) <i>Rhizobium</i>
19.	Rice bra			,		,	,
	a) Antib	iotic	1	o) Anti-cor	rosive	c) Anti-helminthic	d) Insecticide
20.	Yeast ha	ve been	used for th	e commer	cial producti	on of	
			d III. chees		•		
	Choose t	he corre	ct option				
	a) I and		=	o) I and III		c) I, II and III	d) None of these
21.	-			-	nybrid vigou	r or heterosis is	,
	a) Maize			o) Pea	, ,	c) Datura	d) None of these
22.	Sewage	contains		,	andB	. Here A and B refers to	,
			atter; B-ba				B-pathogenic microbes
		_	ter; B-viru				r; B-pathogenic microbes
23.	, ,				ching of a m	icrobe and its industrial	
	a) Yeast		_	O	O	•	•
	-		<i>ceti</i> – Aceti	c acid			
	-			<i>cum</i> – Lact	ic acid		
	-		<i>ger</i> – Citric		< 1	>	
24.		-	-		uring plant l	oreeding is	
	a) Emas					b) Anthesis	
	c) Pollin				- 2	d) For collection of po	ollen
25.	-		icum aestiv	<i>um</i> is			
	a) Haplo			o) Diploid	: EDU	c) Tetraploid	d) Hexaploid
26.				OF II The Top of	A SECOND	rticles from the sewage t	
	sedimen		_		•	O .	· ·
	a) Prima	ary treati	ment			b) Secondary treatme	ent
	c) Tertia	=				d) Quaternary treatm	
27.		-	is obtained	d from			
	a) <i>Eryth</i>			o) <i>Thea chi</i>	inensis	c) <i>Coffea arabica</i>	d) <i>Theobroma cacao</i>
28.		-		<i>triticale)</i> i		,	,
	a) Octap			o) Hexaplo		c) Both (a) and (b)	d) Diploid
29.				,		lowing table and select th	, ·
	Types	Scient	Product	Medical		C	
	of	ific		Applicat			
	Micro	Name		ion			
	bes						
	Fung	A	Cyclopo	B			
	us C	Mona scus	rin Statin	D			
		Purn	Jadii				

- a) A-*Trichoderma polysporum,* B-As an immunosuppressive agent in organ transplant patients, C-Yeast, D-as blood-cholesterol lowering agent
- b) A-*Trichoderma polysporum,* B-As blood-cholesterol lowering agent, C-Protozoa, D- As an immunosuppressive agent in organ transplant patients

	c) A- <i>Clostridium butylicum,</i> B-use	l as a clot-buster, C-ነ	Yeast, D-As blood-cholest	erol agent		
	d) A-Clostridium butylicum, B-As b	lood-cholesterol low	vering agent, C-Yeast, D-u	ised as a clot-buster		
30.	Organic farming includes					
	I. use of biofertilisers and biopesticides					
	II. crop rotation					
	III. locally developed pest resistant varieties					
	Choose the correct option					
	a) I and II b) I and	III c)	II and III	d) I, II and III		
31.	Which of the following plant yields	,	,	, ,		
	a) <i>Cocos nucifera</i>) <i>Eucaiyptus</i>			
	c) <i>Brassica compestris</i>) Euphorbia hirta			
32.	Trichoderma species, free living for			ntially useful as		
	a) Biopesticides	-) Biofertilisers			
	c) Methanogens) Vectors for genetic engi	neering		
33.	Which of the following plants are u			_		
001	a) <i>Crotalaria juncea</i> and <i>Alhagi con</i>	•) <i>Calotropis procera</i> and	•		
	c) Sachharum munja and Lantana	•) Dichanthum annulatum			
34.	Mule is a product of	camara a	j Dienamenam amiaiatan.	ana meacia imonea		
511	a) Breeding	h`) Mutation			
	c) Hybridization	-) Interspecific hybridizat	ion		
35.	The pioneer country in the produc	_		1011		
55.	a) Saudi Arabia b) Iran a) Brazil	d) Japan		
36.	The disease in poultry, which redu					
50.	a) Ranikhet disease b) Aflot) Thrush	d) Marek's		
37.	Potato is a native of	oxicosis c	j Till usli	u) Marek s		
37.	a) Brazil b) Peru	c)) Panama	d) Mexico		
38	Which stage of silkworm secretes s		j i anama	uj Mexico		
50.	a) Adult b) Larva			d) Pupa		
39	Morphine, which is used as an anal			aj i apa		
071	a) Cinchona officinalis	_) <i>Papaver somniferum</i>			
	c) Taxus brevifolia	-) Berberis nilghiriensis			
40	By which of the following methods	-	-	med?		
10.	a) Selection) Grafting	mea.		
	c) Hybridization	-) Hybridization followed	hy selection		
41.	Methanogens are found in	uj	j ilybridization followed	by selection		
т1.	I. organic acid					
	II. rumen of cattle					
	III. butanal					
	IV. anaerobic sludge					
	Choose the correct option					
			N II and IV	d) III and IV		
42	a) I and II b) II and LSD is obtained from	i iii	II and IV	d) III and IV		
42.		la.") Daywalffia aamantina			
	a) Claviceps purpurea	=) Rauwolffia serpentina			
42	c) Papaver somniferum Which of the following food items) <i>Cannabis sativa</i> h formantation by the mi	ano ongovis		
43.	Which of the following food items	a e produced throug	n termentation by the mi	croorganisms?		
	I, Idli					
	II. Dosa					
	III. Toddy					
	IV Cheese					

	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	
44.	Roquefort cheese is formed by ripening with the fun	= -		
	a) Colour b) Flavor	c) Shape	d) Texture	
45.	A drug used forA patients is obtained from a spe	ecies of the organismB		
	Choose the correct option for A and B			
	a) A-heart; B- <i>Penicillium</i>	b) A-organ transplant; B-		
	c) A-swine flu; B- <i>Monascus</i>	d) A-AIDS; B- <i>Pseudomon</i>	as	
46.	Which one of the following is correct?			
	a) Herbicides kill plant mostly by blocking PS-II (pho			
	b) Insecticides kill insects mostly through impairme respiratory arrest	nt of nerve conduction and	sometimes through	
	c) Both (a) and (b)			
	d) None of the above			
47.	In honey, the percentage of maltose and other sugar	is		
	a) 9.2 b) 8.81	c) 10.5	d) 11.2	
48.	Yeast is used in the production of			
	a) Citric acid and lactic acid	b) Lipase and pectinase		
	c) Bread and beer	d) Cheese and butter		
49.	Most of the petrocrops belong to family			
	a) Malvaceae b) Rutaceae	c) Leguminosae	d) Euphorbiaceae	
50.	Which of the following has been covered under the b	oroad patent category?		
	a) <i>Triticum</i> b) <i>Oryza</i>	c) <i>Pisum sativum</i>	d) <i>Brassica</i>	
51.	Which of the following is exhaustible but limited sou	irce of energy?		
	a) Nuclear fuels b) Water energy	c) Fossil fuels	d) Solar energy	
52.	Consider the following statement			
	I. Biochemical Oxygen Demand (BOD) represents the		en that would be consumed	
	if all the organic matter in 1 L of water were oxidized			
	II. Low value of BOD means the water is either norm		nic matter	
	III. High value of BOD means the water in highly poll	luted by organic matter		
	Which of statement given above are correct?			
	a) I and II b) I and III	c) II and III	d) I, II and III	
53.	Gossypium hirsutum is			
	a) New world tetraploid	b) Old world tetraploid		
	c) New world diploid	d) Old world diploid		
54.	The natural method of pest and pathogen control invalled	volving use of viruses, bact	eria and other insects is	
	a) Biochemical control	b) Biological gene control		
	c) Biocontrol	d) Chemical control		
55.	The function of penicillin as an antibiotic was establi	ished by		
	a) Alexander Flemming b) Ernst Chain	c) Howard Florey	d) Both (b) and (c)	
56.	Big holes in Swiss cheese are made by			
	a) A machine	b) A bacterium producing dioxide	g a large amount of carbon	
	c) A bacterium that produces carbon monoxide gas	d) A fungus that produces metabolic activities	s a lots of gases during its	
57.	A is a methane rich fuel gas produced byB br	eakdown with the help of .	C bacteria. Here A, B and	
	C refers to			
	a) A-Gobar gas, B-aerobic, C-fermentative	b) A-Biogas, B-anaerobic,	C-methanogenic	

c) A-water gas, B-aerobic, C-Methanogenic d) A-Biogas, B-anaerobic, C-fe		. C-fermentative				
58.	The medicinal plants is					
	a) <i>Cinchona</i>	b) <i>Opium</i>	c) <i>Rauwolffia</i>	d) All of these		
59.	Which of the following are	e main the benefits of LAB	?			
	I. Increase vitamin- B_{12} amount, thus increasing nutrient quality of milk					
	II. Checks disease causing	microbes in stomach				
	Choose the correct option	1				
	a) Only I	b) Only II	c) I and II	d) None of these		
60.	Which is produced during	ganaerobic fermentation o	f agricultural wastes?			
	a) Methane	b) CO ₂	c) Carbon monoxide	d) Biogas		
61.	Insecticide obtained from	, <u>-</u>	,	, 0		
	a) Pyrethrin	b) Pyrethroid	c) Thiocarbamate	d) Azadirachtin		
62.	• •	, ·	smell, acute respiratory pro			
	swollen eyes are the symp		, 1 , 1			
	a) Chronic respiratory dis		b) Infectious coryza disea	ase		
	c) Brooder pneumonia di		d) Marck's disease			
63.	Isinglass, a type of byprod		=			
	a) Feeding cattle, pigs and		b) Preparation of paints a	and varnishes		
	c) Clarification of vinegar	= -	d) Production of insulin			
64.	Which of the following se		•			
	a) <i>Anabaena</i>	b) <i>Azospirillum</i>	c) <i>Nostoc</i>	d) Both (a) and (c)		
65.			cial production of butyric a	. , . , .		
	a) Clostridium butylicum b) Streptococcus butylicum					
	c) <i>Trichoderma polyspor</i>		d) <i>Saccharomyces cerevi</i>			
66.	Primary treatment is the		,			
	•	ge and small particles fron	n sewage			
		arge and small particles fro	-			
	c) Both (a) and (b)	TIPLUS EDUC	ATION			
		rge and small particles fro	m sewage			
67.	Benefits of mycorrhizae a					
	I. resistance to root borne	pathogen				
	II. tolerance to salinity an	d pathogen				
	III. overall increase in the	plant growth and develop	ment			
	Choose the correct option					
	a) I and II	b) I and III	c) II and III	d) I, II and III		
68.	Biogas is a mixture of infl	ammable gases like				
	a) Methane, CO ₂ , H ₂ and H	H_2S	b) Methane, CO, H_2 and N_2			
	c) CO ₂ , H ₂ and H ₂ S		d) CO, Methane and N_2			
69.	Biogas production from w	aste biomass with the help	p of methanogenic bacteria	is		
	a) Multi step process	b) One step process	c) Two step process	d) Three step process		
70.	The organisms which are	used to enrich the nutrien	t quality of the soil are calle	ed		
	a) Bacteria	b) Cyanobacteria	c) Fungi	d) All of these		
71.	In silk fibre, the central co	ore is made up of				
	a) Sericin	b) Fibroin	c) Gum	d) Cellulose		
72.	The part of flower of <i>Croo</i>	*				
	a) Calyx	b) Corolla	c) Perianth	d) Style and stigma		
73.	Which of the following ba	-	= -			
	a) <i>Propionibacterium sha</i>		b) Saccharomyces cerevi	siae		
	c) <i>Lactobacillus</i>		d) Thermophilic bacteria			

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74.	Which is the major crop in Asia?		
	a) Rice b) Sugarcane	c) Jowar	d) Millet
75.	Which method of plant breeding resulted in the	• •	•
	a) Intrageneric hybridization	b) Back cross	Ž
	c) Bulk method	d) Intraspecific hybrid	lization
76.	The raw material obtained, from which one of th		
	a) Jerusalem artichoke b) Oryza sativa	c) <i>Sorghum vulgare</i>	d) <i>Butea monosperma</i>
77.	Which of the following fibres is not a plant produ	act?	-
	a) Flax b) Cotton	c) Hemp	d) Silk
78.	The most important of the symbiotic nitrogen fix	king bacteria, which forms n	odules on the roots of legume
	plants is		_
	a) <i>Aspergillus</i> b) <i>Rhizobium</i>	c) <i>Penicilium</i>	d) <i>Streptococcus</i>
79.	Read the following statement having two blanks	(A and B)	
	A drug used forA patients is obtained from a	species of the organismI	3 It helps in clearing blood
	clots inside the blood vessels.		
	The one correct option for the two blanks are		
	a) A-heart; B- <i>Streptococcus</i>	b) A-organ transplant;	B- <i>Trichoderma</i>
	c) A-heart; B- <i>Pseudomonas</i>	d) A-organ transplant;	B- <i>Monascus</i>
80.	Study the following related to uses of plants and	identify the correct match f	or sorghum and cotton
	respectively.		
	I. Blood purification and organic fertilizer.		
	II. Animal feed and paper industry.		
	III. Vitamin-B and cosmetics.	-	
	IV. Explosives and organic fertilizer.	and the same of th	
	a) I and II b) II and III	c) III and IV	d) II and IV
81.	Consider the following statements about methan	-	
	I. Methanogen bacteria are commonly found in t		
	II. These bacteria are also occur in rumen of the	cattle where they act upon o	cellulosic material to
	breakdown cellulose	6 1 1 1 11	
	III. They play a very important role in the nutriti		lulosic material
	Which of the statement given above are correct?		15 ** 1 ***
00	a) I, II and III b) I and II	c) I and III	d) II and III
82.	Indian rose wood tree is a common name of	D. H	D. F. and and
02	a) Acacia b) Shorea	c) <i>Delbergia</i>	d) <i>Eucalyptus</i>
83.	Microorganisms or microbes are found in	ovgonisms	
	a) Soil, air, water and inside the bodies of living	organisms	
	b) Thermal vents deep in soilc) Under snow as well as acidic environment		
	d) All of the above		
84.	Emasculation is concerned with		
04.	a) Hybridization b) Clonal selection	c) Mass selection	d) Pure line selection
85	From which part of coconut coir is obtained?	c) Mass selection	d) I die fille selection
05.	a) Pericarp b) Mesocarp	c) Epicarp	d) Endocarp
86	Microorganism such as <i>Lactobacillus</i> and other		aj maocarp
00.	a) Citric Acid Bacteria (CAB)	b) Lactic Acid Bacteria	(LAR)
	c) Tartaric Acid Bacteria (CAB)	d) Formic Acid Bacteri	, ,
87	Which of the following crops have been brought		··· (-1.10)
٥,,	a) Cashewnut, potato, rubber	b) Mango, tea	
	c) Tea rubber mango	d) Coffee	

00.	which one of the following types of slik is being prod	auceu extensively ili soutil	East Asia:
	a) Eri b) Mulberry	c) Tassar	d) Muga
89.	Aleurone grains are rich in		
	a) Fat b) Protein	c) Carbohydrates	d) Auxins
90.	Most recent insecticides in India are		
	a) Chlorinated hydrocarbons	b) Organophosphorus cor	npounds
	c) Carbamides	d) Pyrethroids	
91.	Breeding of crops with high levels of minerals, vitam	ins and proteins is called	
	a) Somatic hybridization	b) Biofortification	
	c) Biomagnifications	d) Micropropagation	
92.	The microorganism used in production of biogas is	, , ,	
	a) Bacteria b) Virus	c) Algae	d) Yeast
93.	Chicks of the first week in the brooder hover are usu	, ,	,
	a) Marek's disease b) Cotasis	c) Ranikhet disease	d) Whirling disease
94.	The most common fungal partner of mycorrhiza belo	•	, 8
	a) Azotobacter b) Glomus	c) <i>Azolla</i>	d) <i>Frankia</i>
95.	Disadvantages of chemical agents are	.,	.,
	I. chemicals are toxic and harmful to human beings a	and animals	
	II. chemical pollute the environment and plants		
	III. weedicides used to remove weeds also pollute th	e soil	
	Choose the correct option		
	a) I, II and III b) I and II	c) I and III	d) II and III
96.	Bacillus thuringiensis (Bt) strains have been used fo		,
	a) Bio-metallurgical technique	b) Bio-mineralisation pro	cesses
	c) Bio-insecticidal plants	d) Bio-fertilizers	
97.	Given below is the flowchart of sewage treatment. Id		select the correct option
	Primary sludge		Ī
	Primary	:ATION	
	Effluent from primary Secondary treatment A	27112011	
	settling tank		
	B		
	Biogas Sedimentation G Floor		
	formation $\leftarrow E \leftarrow D$ \leftarrow Flocs		
	a) A-small aeration tank, B-Microbial digestion, C-Hi	gh BOD, D-Activated sludge	e, E-Aerobic sludge
	digesters		
	b) A-Large aeration tank, B-Mechanical agitation, C-1	Increased BOD, D-Activated	l sludge, E-Aerobic sludge
	digesters		
	c) A-small aeration tank, B-Microbial digestion, C-Lo	ow BOD, D - Activated sludge	, E-Anaerobic sludge
	digesters		
	d) A-Large aeration tank, B-Mechanical agitation, C-1	Reduced BOD, D-Activated	sludge, E-Anaerobic sludge
	digesters		
98.	Brewer's yeast is		
	a) <i>Aspergillus fumigatus</i>	b) Saccharomyces cerevis	siae
	c) Streptomyces griseus	d) <i>Clostiridium botulinun</i>	1
99.	The free-living fungus <i>Trichoderma</i> can be used for		
	a) Killing insects	b) Biological control of pl	ant diseases
	c) Controlling butterfly caterpillars	d) Producing antibiotics	
100.	Identify the blank spaces A, B, C and D given in the form	ollowing table and select th	e correct answer
	Types of Scientific Commercial		

Microbes	Name	Product
Bacterium	A	Clot buster
		enzyme
B	Aspergillus	Citric acid
	niger	
Fungus	Trichoderma	\mathcal{C}
	polysporum	
Bacterium	D	Butyric acid

	MICIODES	Name	Troduct				
	Bacterium	A	Clot buster				
			enzyme				
	B	Aspergillus	Citric acid				
		niger					
	Fungus	Trichoderma	\mathcal{C}				
		polysporum					
	Bacterium	D	Butyric acid				
	a) A- <i>Streptod</i>	occus, B-Fungu	s, C-Cyclosporii	1-A, D-	Clostridium butylici	ım	
	-	_			porin-A, D- <i>Lactoba</i>		
	=	•		-	-Streptokinase, D- <i>P</i>		roqueforti
	-	orum, B-Fungus			=		•
		en revolution in			•		
	a) M S Swami		N Borlaug		c) R Mishra		d) P Maheswari
	-	following can b	_	using l	•		
	a) Insects	_	Diseases	J	c) Weeds		d) All of these
	Microbes are	-			,		,
	I. primary tre	atment of sewa	ge				
		treatment of se	-				
	-	sludge digester	_				
	IV. production						
	Choose the co	_					
	a) I, II and III	-	I, III and IV	de "	c) II, III and IV		d) I, II, III and IV
	-			useful	crops are raised by		, -,,
	a) Migration		Biofertilizer	4	c) Hybridization		d) Natural selection
	, ,	s acquired indu		ce as a	•		,
		er, biopesticide	_				
	-	ty compound, b		-			
		de and anti-ferti					
	-	r drug, biopesti		tilizer			
		the following is			organism?		
	a) <i>Anabaena</i>	_	Nostoc		c) <i>Azotobacter</i>		d) <i>Pseudomonas</i>
	-	-		etic di	versity in India?		,
	a) Rice		Maize		c) Mango		d) Groundnut
	Cloves are ob	-			-) : :8		,
	a) Seed		Fruit		c) Coat		d) Flower bud
	-	,		ant we	=		its herbicidal warfare
		luring the Vietn				<i>y</i>	
	a) Agent blac	_	Agent orange		c) Super orange		d) Both (b) and (c)
	, ,			are of	great importance be		
		er under advers	=	0 01 7	5. eutp e. turice se	ou use the	,
	-	in the study of					
	-	=		nemica	l fertilizers compare	ed to dinlo	ids
	d) Give homo	-			. 101 dili 2013 compare	to diplo	
			a and organic w	zaste fr	om kitchen can be r	nost profi	tahly minimised hy
T T T .					la) II aira a tha arra far		

a) Storing them in underground storage tanks b) Using them for producing biogas

d) Using them directly as biofertilizers c) Vermiculture

112. Cellulose fibre is obtained from *Gossypium*

a) Stem surface b) Seed hair c) Leaf surface d) Root hair

113. Biogas production is carried out by) TT 1 1 11	13.7	
a) Thermoacidophils b) Methanogens	c) Halophiles	d) Luminants	
114. Methanogens, growing anaerobically on cellulosic m			
a) Methane	b) Methane and carbon d		
c) Methane and hydrogen	d) Methane, carbon dioxi	de and nydrogen	
115. Which one is a neem product used as insect repeller		D.E. L.	
a) Azadirachtin b) Rotenone	c) Parathione	d) Endrin	
116. <i>Triticale,</i> the first man-made cereal crop, has been o	-		
a) Rye b) Pearl millet	c) Sugarcane	d) Barley	
117. Which one of the following is being tried in India as			
a) <i>Jatropha</i> b) <i>Azadirachta</i>	c) <i>Musa</i>	d) <i>Aegilops</i>	
118. Mycorrhiza does not help the host plant in			
a) Enhancing its phosphorus uptake capacity			
b) Increasing its tolerance to drought			
c) Enhancing its resistance to root pathogens			
d) Increasing its resistance to insects			
119. Which of the following is a disease resistant, high yi	-	_	
a) Aseel b) White leg horn	c) Giriraja	d) Plymouth rock	
120. Which industrial products are synthesized from mic	crobes?		
I. Antibiotics II. Fermented beverages			
III. Bioactive molecules IV. Enzyme			
Choose the correct option			
a) I, II, III and IV b) II, III and IV	c) I, III and IV	d) III and IV	
121. A collection of plants and seeds having diverse allele	es of all the genes of a crop	is called	
a) Germplasm b) Gene library	c) Genome	d) Herbarium	
122. Percentage composition of fibroin and sericin in silk	ris		
a) 50:40 b) 80:20	c) 30:70	d) 40 : 60	
123. <i>Simondesia chinensis</i> is commonly known as	LA HON		
a) Amla b) Poppy	c) Teak wood	d) Jojoba	
124. The quickest method of plant breeding is			
a) Introduction b) Selection	c) Hybridization	d) Mutation breeding	
125. The dough used for making bread is fermented by			
a) Bacteria b) Virus	c) Prions	d) Yeast	
126. Chicken pox, small pox, etc., can be cure by			
a) Neem b) Tulsi	c) Shatavari	d) None of these	
127. Nitrifying bacteria			
a) Convert free nitrogen to nitrogen compounds	b) Convert proteins into	ammonia	
c) Reduce nitrates to free nitrogen	d) Oxidize ammonia to n	itrates	
128. Consider the following statements			
I. Ladybirds and dragonflies are used to get rid of ap	hids and mosquitoes		
II. The bacteria Bacillus thuringiensis (Bt) are use	ed to control butterfly		
III. Trichoderma sp. free living fungi, are present in	root ecosystems where the	ey act against several plant	
pathogens			
IV. Rhizobium is a symbiotic bacterium that lives in	the stem of legumes		
Which of the statements given above are correct?			
a) I, II and III b) I, III and IV	c) II, III and IV	d) II and IV	
129. Cultivation of <i>Bt</i> cotton has been much in the news.	=	·	
a) 'Barium-treated' cotton seeds	-		
b) 'Bigger thread' variety of cotton with better tensi	le strength		

-	ology' using restriction en	-					
, ,	d) Carrying an endotoxin gene from Bacillus thuringiensis						
	130. Which of the following cyanobacteria can fix atmospheric nitrogen?						
I. Volvox II. Oscillatori	ia						
III. Nostoc IV. Anabaena							
Choose the correct option	n						
a) I, II and III	b) I, II and IV	c) II, III and IV	d) III and IV				
131. From which one of the fo	llowing plants, the insectio	ride pyrethrum is prepared	?				
a) <i>Vetivera</i>	b) <i>Cymbopogon</i>	c) <i>Chrysanthemum</i>	d) <i>Tephrosia</i>				
132. Bacterial fertilizer is							
a) <i>Anabaena</i>	b) <i>Nostoc</i>	c) <i>Rhizobium</i>	d) <i>Phycomyces</i>				
133. Which of the following or	rganisms is used in the pro	duction of beverages like w	vine, beer, whisky brandy or				
rum?							
a) <i>Clostridium butylicum</i>	1	b) <i>Aspergillus niger</i>					
c) <i>Saccharomyces cerevi</i>	isiae	d) <i>Penicillium notatum</i>					
134. Recently Govt. of India ha	as allowed mixing of alcoho	ol in petrol. What is the amo	ount of alcohol permitted for				
mixing in petrol?	G	•	-				
a) 2.5%	b) 10-15%	c) 10%	d) 5%				
135. The chemical substances	•	•					
microbes are called	1	,	O				
a) Ethanol	b) Citric acid	c) Antibiotics	d) Opiates				
136. Which of the following is		•) o p				
_	s life-forms inhabiting the						
		feeding and habitat of pred	ators and pests				
Choose the correct option	Sec. 1.49	recamb and napidae of brea	actors and posts				
a) Only I	b) Only II	c) I and II	d) None of these				
137. Which is a useful product		oj rana n	a) mone of these				
a) Saffron	b) Cotton fibres	c) Clove	d) Jute				
138. Today is traditional drinl		cj diove	a) juice				
a) South India	b) North India	c) West India	d) East India				
139. Process of biogas produc	=	cj west maia	a) Last maia				
a) Aerobic process	b) Anaerobic process	c) Active process	d) None of these				
140. Cork is obtained from	b) Allaelobic process	c) Active process	u) None of these				
a) <i>Quercus suber</i>	b) <i>Pinus roxburghii</i>	c) <i>Cedrus deodara</i>	d) <i>Mangifera indica</i>				
* *	=	•	uj Mangnera muica				
141. <i>Nosema bombycis,</i> which	=		d) Dyatagaan				
a) Fungus	b) Virus	c) Bacterium	d) Protozoan				
142. In September 2001, which	in of the following was used						
a) Botulinum		b) Anthrax (Bacillus anat	inracis)				
c) Polio virus		d) AIDS virus					
143. <i>Gambusia</i> fish is) M '' C' 1	1) [2] . (* 1				
a) Cat fish	b) Sucker fish	c) Mosquito fish	d) Flat fish				
144. Biogas produced by ferm		ge, cattle dung, etc., predom	inantly comprises				
a) Methane, nitrogen and							
b) Methane and carbon d							
c) Methane and carbon n							
d) Methane and nitric ox							
145. Chicory powder, which is	_						
a) Root	b) Leaf	c) Stem	d) Seeds				
146. 'Kattha' is obtained from	the heart wood of						

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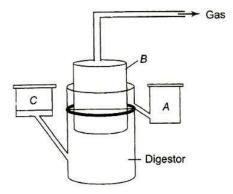
a) <i>Acacia Arabica</i>	b) <i>Acacia fornesiana</i>	c) <i>Acacia auriculiformis</i>	d) <i>Acacia catechu</i>	
147. <i>Trichoderma</i> sp. free liv		_		
a) Gene transfer in highe	er plants	b) Biological control of soil-borne plant pathogens		
c) Bioremediation of cor	ntaminated soils	d) Reclamation of wastels	ands	
148. Biogas is pathogen free b	pecause			
a) Anaerobic digestion r	emoves pathogens and bact	eria		
b) It is toxic to pathogen	S			
c) During decomposition	n, it produce antibiotics			
d) Cattle dung is pathoge	en free			
149. What name has been ass	igned to the genus produce	d by a cross between cabba	ge and radish?	
a) <i>Secale</i>	b) <i>Bursa pastoris</i>	c) <i>Lysogenicophyll</i>	d) <i>Raphanobrassica</i>	
150. Isinglass is a product ob	cained from air bladder of			
a) Some snakes	b) Some fishes	c) Some aves	d) None of these	
151. The water soluble protei	n associated with silk threa	d is		
a) Fibroin	b) Sericin	c) Chitin	d) Mucin	
152. Most nutritious among the	•			
a) Wheat	b) Maize	c) Bajra	d) Rice	
153. Which gas is released du			•	
making bread	8 1	3 1 7 1	0	
a) CO ₂	b) CO	c) 0 ₂	d) H ₂	
154. Real product of apicultur	,	-) - 2)2	
a) Honey	b) Bee wax	c) Both (a) and (b)	d) None of these	
155. Integrated Pest Manager			a.) 1.0110 01 unoso	
a) Biological pesticides	ment (ii ii) aiseourages the	b) Chemical pesticides		
c) Mechanical technolog	v	d) All of these		
156. A pseudocereal is	y	d) Thi of these		
a) <i>Fagopyrum esculentu</i>	um	b) <i>Triticum aestivum</i>		
c) Zea mays	Police FDUC	d) <i>Oryza sativa</i>		
157. An organism used as a b	iofertilizer for raising sovah			
a) <i>Azospirillum</i>	b) <i>Rhizobium</i>	c) <i>Nostoc</i>	d) <i>Azotobacter</i>	
158. In maize, hybrid vigour i		c) 110310c	uj 112010bactei	
a) Bombarding the seeds	_			
b) Crossing of two inbre				
	n the most productive plants	c		
d) Inducting mutations	i the most productive plant	o .		
159. Roquefort cheese is form	and by rinening with the fun	ıgi		
a) <i>Propionibacterium sh</i>		b) <i>Penicillium roqueforti</i>		
c) <i>Propionibacterium ro</i>		d) <i>Penicillium sharmanii</i>		
160. A straight fertilizer is the	•	uj Fellicillulli Silai illallil		
~		h) Absorbed by the plants	from aprial aprox	
a) Absorbed by roots dir	-	b) Absorbed by the plants	s Iroili aeriai spray	
c) Having only one prim		d) Not easily leached		
161. Which of the following m			d) Duckono	
a) Bacteria	b) Virus	c) Fungi	d) Protozoa	
162. Consider the following s	_	_	uuragaa halanaad	
	otes the use of crop rotation	is and cover crops and enco	ourages balanced	
host/predator relationsh			luabla ta ala arr arr arra '	
	eed management and soil co	onservation systems are va	iuable tools on an organic	
farm	acts the environment minim	vizo goil doggadation on d	region and degrees	

	pollution			
	Which of the statements g	given above are correct?		
	a) I, II and III	b) I and II	c) I and III	d) II and III
163.	Saccharomyces cerevision	ae is used for commercial p	_	
	a) Butanol	b) Ethanol	c) Methanol	d) Acetic acid
164.	In the sewage treatment b	oacterial flocs are allowed t	to sediment in a settling-tar	•
	as		0	
	a) Activated sludge	b) Primary sludge	c) Anaerobic sludge	d) Secondary sludge
165.	•	ultural crops is threatened	,	, , ,
	a) Introduction of high yie		b) Intensive use of fertiliz	ers
	c) Extensive intercroppin	=	d) Intensive use of biopes	
166.		g is used as biological inse		
	a) Tiger beetle	b) Caterpillar	c) Silkmoth	d) Mazra poka
167.		-	cles that settle down are cal	•
	a) Activated sludge	b) Secondary sludge	c) Primary sludge	d) Anaerobic sludge
168.		cancer drug is obtained fro	· · · · · · · · · · · · · · · · · · ·	,
100.	a) <i>Taxus</i>	b) <i>Tagetes</i>	c) <i>Tamarix</i>	d) <i>Thea</i>
169.	Triticum aestivum, the co		•) •••••	,
	a) Triploid with 21 chrom		b) Hexaploid with 42 chro	omosomes
	c) Tetraploid with 30 chr		d) Diploid with 14 chrom	
170			ploidy number of cross bre	
1,01	a) 7	b) 21	c) 14	d) 28
171		imated by measuring the a		4) 10
1,1	a) Total organic matter	imated by measuring the a	b) Biodegradable organic	matter
	c) Oxygen evolution		d) Oxygen consumption	matter
172	72. Secondary sewage treatment is mainly a			
1,2.	a) Chemical process	ene is mainly a	b) Physical process	
	c) Mechanical process	WOLLIS FOLK	d) Biological process	
173	Producer gas differs from	hingas in having	a) Biological process	
1,0	a) Methane	biogas in naving	b) Carbon monoxide	
	c) Carbon dioxide		d) Formed by fermentation	nn
174	Bacillus thuringiensis is u	sed as	a) i ormea by termematic	/11
1, 1,	a) Biofungicide	b) Biopesticide	c) Biocontroller	d) Bioweapon
175				purchase fresh hybrid seed
1,0	every year because	or op various to emplore my	oria vigour, are farmers to	parenase mesm ny sma seed
	* *	ng standing due to inbreed	ing denression	
	b) They are not allowed to		mg depression	
		with increased heterozygo	sitv	
	d) Government has accept	• •	orey	
176.		hane production from cattl	e dung is	
1,0	a) Burnt	nane production nom each	b) Buried in land fills	
	c) Used as manure		d) Used in civil constructi	on
177.	Morphine obtained from o	onium is	a, cou m erm como acon	
1,,,	a) Latex	b) Pome	c) Alkaloid	d) Tannin
178	•	roduced through a particu	•	aj rammi
., O.	a) <i>Clostridium</i>	b) <i>Trichoderma</i>	c) Aspergillus	d) Saccharomyces
179	Bacillus thuringiensis is	•	o, noperginus	a, saccina omy cos
-, ,,	a) Bacterial pathogens	b) Viral pathogens	c) Protozoans	d) Insect pests
180			viruses as hio-control agent	•

I. Baculoviruses are pathogens that attack insects a	nd other arthropods			
II. Most of these biocontrol agents belong to the genus Nucleopolyhedro virus				
III. They do not harm plants mammals, birds, fish and other non-target insects				
IV. Baculoviruses are helpful in Integrated Pest Ma	nagement (IPM) programm	e, in which beneficial insects		
are conserved				
Choose the correct option				
a) I, II and III b) I, II and IV	c) II, III and IV	d) All of these		
181. The timber yielding plant Shorea robusta belongs t	to the which family?			
a) Fabaceae b) Rubiaceae	c) Dipterocarpaceae	d) Verbenaceae		
182. Opium is obtained from which the part of <i>Papaver</i>	somniferum?			
a) Seed b) Stem and leaf	c) Unripe fruits	d) Mature fruits		
183. Which one of the following genus forms symbiotic	association with plants and	helps them in their		
nutrition?				
a) <i>Glomus</i> b) <i>Trichoderma</i>	c) <i>Azotobacter</i>	d) <i>Aspergillus</i>		
184. By anaerobic process, the cow dung is used to proc	luce	, , ,		
a) Methane b) Butane	c) Ethane	d) Propane		
185. India's wheat yield revolution in the 1960s was po	•	, .		
a) Hybreed seeds	b) Increased chlorophyll	content		
c) Mutations resulting in plant height reduction	d) Quantitative trait muta			
186. Introduced plants in new localities must show adaptive must show	, •			
a) Selection b) Acclimatization	c) Modification	d) Propagation		
187. The world's highly prized wool yielding 'Pashmina		7 1 3		
a) Sheep	b) Goat			
c) Goat-sheep cross	d) Kashmiri sheep- A fgh	an sheep cross		
188. Which one of the following pesticides is banned no		F		
a) DDT b) Eldrin	c) Aldrin	d) Toxaphene		
189. The technology of biogas production from cow dur	•			
a) Oil and Natural Gas Commission	. 6			
b) Gas Authority of India	CITIZOTT			
c) Indian Agricultural Research Institute and Khad	i and Village Industries Com	mission		
d) Indian Oil Corporation				
190. Which of the following is wrongly matched?				
a) <i>Indigofera</i> – Dye b) <i>Sesbania</i> – Fodder	c) <i>Petunia</i> – Fumigatory	d) <i>Aloe –</i> Medicine		
191. <i>Rauwolffia</i> is obtained from which part of the plan		.,		
a) Stem b) Root	c) Fruit	d) Leaf		
192. Which one of the following is the American poultry		a) 20a1		
a) Australop b) Minorica	c) Assel	d) Rhod Island Red		
193A released by LAB during growth coagulate and	*	•		
a) A-Acid; B-milk protein	b) A-Base; B-harmful bac			
c) A-Enzyme; B-milk protein	d) A-Bacteria; B-other mi			
194. Which of the following is correct?	a) It bucteria, b other in	terobes		
I. Wine and beer are produced without distillation	of fermented broth			
II. Whisky, brandy and rum are produced by distill		1		
III. Wine and beer are produced by distillation of the		•		
IV. Whisky, brandy and rum are produced without		lhroth		
Choose the correct option	arsanation of the termenter	i Di Otti		
a) I and II b) I and III	c) II and III	d) III and IV		
195. Quarantine regulation is meant for	c) II and III	aj III ana IV		
a) Preventing entry of diseased plants in the count	ry h) Snraving diseased plan	nts with insecticides		

c) Promoting dry farming d) Growing fruit trees in all the states			
196. Which one of the follow	wing is not used in organic	farming?	
a) Snail	b) <i>Glomus</i>	c) Earthworms	d) <i>Oscillatoria</i>
197. Which type of endosperm will be formed on hybridization of diploid female plant and tetraploid male			
plant?			
a) Triploid	b) Pentaploid	c) Tetraploid	d) Diploid
198. Protoplasts of two diffe	erent species are used in		
a) Micro-propagation		b) Somatic hybridizati	on
c) Clonal propagation		d) Organography	
199. An important drug is o	btained from the bark of		
a) <i>Papaver</i>	b) <i>Cinchona</i>	c) <i>Withania</i>	d) <i>Momordica</i>
200. Morphine is obtained f	rom	•	-
a) <i>Rauwolffia serpenti</i>		b) <i>Papaver somniferu</i>	m
c) <i>Cannabis sativa</i>		d) <i>Cajanus cajan</i>	
201. Which type of honey b	ees are useful for apiary in		
a) <i>Apis indica</i>	b) <i>Apis dorsata</i>	c) <i>Apis mellifera</i>	d) <i>Apis florae</i>
202. The term heterosis wa	, ,	<i>y</i> 1	, 1
a) McClintock	b) Boweri	c) Swaminathan	d) None of these
203. Consider the following	•	<i>oj on umana uman</i>	.,,
_	g bread and beverages is a p	orokarvotic fungus	
_	duced by <i>Streptococcus</i> a		gineering is used as a clot
buster	duced by Streptococcus a	ma mounted by genetic eng	inicering is used as a cioc
	n detergent for removing o	anly stains from laundry	
	l in clearing fruit juices	miy stams nom faunury	
	The second secon	P	
	t given above are correct?	a) II III and IV	d) III and IV
a) I, II, III and IV	b) I, II and III	c) II, III and IV	d) III and IV
-		composer bacteria presen	t in the wastes is recycled into
the starting of the prod	cess is called	LA Astincted designs to	
a) Cyclic treatment	cess is called	b) Activated sludge tr	eatment
a) Cyclic treatmentc) Primary treatment		b) Activated sludge tro d) Tertiary treatment	eatment
a) Cyclic treatmentc) Primary treatment205. The main sources of bit	ofertilisers are	d) Tertiary treatment	
a) Cyclic treatmentc) Primary treatment205. The main sources of bia) Protista	ofertilisers are b) Cyanobacteria		eatment d) All of these
a) Cyclic treatmentc) Primary treatment205. The main sources of bia) Protista206. Cotyledons and testa a	ofertilisers are b) Cyanobacteria re edible parts of	d) Tertiary treatmentc) Fungi	d) All of these
 a) Cyclic treatment c) Primary treatment 205. The main sources of bia a) Protista 206. Cotyledons and testa a a) Groundnut and port 	ofertilisers are b) Cyanobacteria re edible parts of negranate	d) Tertiary treatmentc) Fungib) Walnut and tamaring	d) All of these
 a) Cyclic treatment c) Primary treatment 205. The main sources of bia a) Protista 206. Cotyledons and testa a a) Groundnut and pomoc) French bean and control 	ofertilisers are b) Cyanobacteria re edible parts of negranate conut	d) Tertiary treatmentc) Fungi	d) All of these
 a) Cyclic treatment c) Primary treatment 205. The main sources of binal Protista 206. Cotyledons and testa and Groundnut and pomocol French bean and control 207. Cotton fibre is basically 	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of	d) Tertiary treatmentc) Fungib) Walnut and tamarind) Cashew nut and lite	d) All of these nd chi
 a) Cyclic treatment c) Primary treatment 205. The main sources of binal Protista 206. Cotyledons and testanal Groundnut and pomocol French bean and control 207. Cotton fibre is basically all Trichome 	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale	d) Tertiary treatmentc) Fungib) Walnut and tamarind) Cashew nut and litec) Dried seed coat	d) All of these
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mice	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale	d) Tertiary treatmentc) Fungib) Walnut and tamarind) Cashew nut and litec) Dried seed coat	d) All of these nd chi
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria	d) All of these nd chi d) Non glandular hair d) Methanogens
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mice	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria	d) All of these nd chi d) Non glandular hair d) Methanogens
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria	d) All of these nd chi d) Non glandular hair d) Methanogens
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pon c) French bean and co 207. Cotton fibre is basicall a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria	d) All of these nd chi d) Non glandular hair d) Methanogens
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has number of wheat?	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts s 2n = 42 chromosomes. W	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria which one of the following is	d) All of these and chi d) Non glandular hair d) Methanogens s the basic chromosome d) 14
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has number of wheat? a) 42	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts s 2n = 42 chromosomes. W	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria which one of the following is	d) All of these and chi d) Non glandular hair d) Methanogens s the basic chromosome d) 14
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has number of wheat? a) 42 210. An undistilled alcohol	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale robes used in biogas produ b) Yeasts s 2n = 42 chromosomes. W b) 21 ic beverage produced from b) Rum	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria hich one of the following is c) 7 grain-mesh fermentation c) Curd	d) All of these and thi d) Non glandular hair d) Methanogens s the basic chromosome d) 14 is
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has number of wheat? a) 42 210. An undistilled alcohol a) Beer	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale robes used in biogas produ b) Yeasts s 2n = 42 chromosomes. W b) 21 ic beverage produced from b) Rum	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria hich one of the following is c) 7 grain-mesh fermentation c) Curd	d) All of these and chi d) Non glandular hair d) Methanogens s the basic chromosome d) 14 is d) Wine
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and co 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has number of wheat? a) 42 210. An undistilled alcohol a) Beer 211. Cytosporin-A an immu	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale crobes used in biogas produ b) Yeasts s 2n = 42 chromosomes. W b) 21 ic beverage produced from b) Rum nosuppressive drug is produced	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria hich one of the following is c) 7 grain-mesh fermentation c) Curd duced by the fungus b) <i>Monascus purpure</i>	d) All of these and thi d) Non glandular hair d) Methanogens s the basic chromosome d) 14 is d) Wine
a) Cyclic treatment c) Primary treatment 205. The main sources of bi a) Protista 206. Cotyledons and testa a a) Groundnut and pom c) French bean and coc 207. Cotton fibre is basically a) Trichome 208. Name the group of mic a) Lactic acid bacteria 209. Root cells of wheat has number of wheat? a) 42 210. An undistilled alcohol a) Beer 211. Cytosporin-A an immu a) Aspergillus niger	ofertilisers are b) Cyanobacteria re edible parts of negranate conut y a type of b) Scale robes used in biogas produ b) Yeasts s 2n = 42 chromosomes. W b) 21 ic beverage produced from b) Rum nosuppressive drug is produ	d) Tertiary treatment c) Fungi b) Walnut and tamarin d) Cashew nut and lite c) Dried seed coat action c) Cyanobacteria thich one of the following is c) 7 grain-mesh fermentation c) Curd duced by the fungus	d) All of these and thi d) Non glandular hair d) Methanogens s the basic chromosome d) 14 is d) Wine

213. 'Jaya' and 'Ratna' developed for green revolution in	India are the varieties of	
a) Rice b) Wheat	c) Bajra	d) Maize
214. Shakti, Rattan and Protina are three important lysin	ne rich varieties of	
a) Rice b) Pulses	c) Wheat	d) Maize
215. Gobar gas generation technology was developed by	the collaboration ofA a	andB Here A and B
refers to		
a) A-Rural Bank of India, B-Khadi and Village indus	tries Commission	
b) A-Indian Agricultural Research Institute, B-Khad	i and Village Industries Cor	nmission
c) A-National Bank for Agriculture and Developmen	nt, B-Indian Agricultural Re	search Institute
d) A-National Bank for Agriculture and Developmen	nt, B-Khadi and Village Indu	istries Commission
216. Select the correct statement from the once given be	low	
a) Barbiturates when given to criminals make them	tell the truth	
b) Morphine is often given to persons, who have un	dergone surgery as a pain l	killer
c) Chewing tobacco lowers blood pressure and hea	rt rate	
d) Cocaine is given to patients after surgery as it sti	mulates recovery	
217. Pyrethrin is extracted from		
a) <i>Chrysanthemum cinorarifolium</i>	b) <i>Derris eliptica</i>	
c) <i>Azadirachta indica</i>	d) <i>Ryania speciosa</i>	
218. Cod and shark liver oil is a source of		
a) Energetic nutrients	b) Constructive nutrients	5
c) Energetic and constructive nutrients	d) Protective nutrients	
219. Agricultural chemicals include		
a) Growth regulators b) Fertilizers	c) Pesticides	d) All of these
220. Leaves of which plant can sharpen the memory?	2.41	D 0 1
a) Asparagus b) Adhatoda	c) <i>Aloe vera</i>	d) <i>Ocimum</i>
221. Which of the following plants is used as biofertilized		1) <i>pL '</i>
a) <i>Nostoc</i> b) <i>Funaria</i>	c) <i>Volvox</i>	d) <i>Rhizopus</i>
222. Antibiotics are used to treat diseases like	b) Plane	
a) Diphtheria whooping cough	b) Plaque	
c) Leprosy	d) All of the above	
223. The scientific name of zebu is	a) Duhalua huhalua	d) Calling domastians
a) Bos indicus b) Bombyx mori	c) <i>Bubalus bubalus</i>	d) <i>Gallus domesticus</i>
224. Reserpine is obtained from	h) Pauvyolffia compontino	
a) Asafoetida	b) <i>Rauwolffia serpentina</i>	l
c) <i>Curcuma longa</i>225. The microscopic proteinaceous infectious agents ar	d) <i>Papaver somniferum</i>	
a) Viroids b) Prions	e c) Protozoa	d) Bacteria
226. Biochemical Oxygen Demand (BOD) in a river wate	•	uj bacteria
a) Has no relationship with concentration of oxyger		
b) Gives a measure of <i>Salmonella</i> in the water	in the water	
c) Increases when sewage gets mixed with river wa	ıtor	
d) Remains unchanged when algal bloom occurs	ittei	
227. Autopolyploids (numeric or quantitative polyploids	or intraspecific polyploids	like ferns garden plants
gram, maize, rice, banana, grapes, apple, etc, show	or meraspecific porypiolas	, inc icino, garucii pianto,
a) Increased gene dosage	b) Gigas effect and seedle	ess fruits
c) More yields and better adaptation	d) All of the above	JUD II UILU
228 The helow diagram represent a typical hiogas plant		or A. Rand Crofors to



- a) A-Sludge, B-Dung + water, C-CH₄ + CO₂
- b) A-Dung + water, B-Sludge, C-CH₄ + CO₂
- c) A-Sludge, B- CH₄ and CO₂, C-Dung + water
- d) A-CH₄ + CO₂, B-Dung + water, C-Sludge
- 229. For cryopreservation, plant materials are frozen at
 - a) −196°C
- b) -150° C
- c) -80°C
- d) -40°C
- 230. Activated sludge have the ability to settle quickly so that it can
 - a) Be rapidly pumped back from sedimentation to aeration tank
- b) Absorb pathogenic bacteria present in waste water, while sinking to the bottom of the settlingtank
- c) Be discarded and anaerobically digested
- d) Absorb colloidal organic matter
- 231. Which of the following are the part or example of symbiotic mutualistic association?
 - I. Yeast
 - II. Rhizobium
 - III. Mycorrhiza
 - IV. Oscillatoria
 - a) I and II
- b) I and III
- d) III and IV

- 232. Leucaena leucocephala is
 - a) Called subabul
 - b) A small leguminous tree with edible fruits and seeds
 - c) A fodder plant as its pods and leaves are consumed by cattle
 - d) All of the above
- 233. High content of lysine is present in
 - a) Wheat
- b) Apple
- c) Maize
- d) Banana

- 234. Which one of the following is not a biofertilizer?
 - a) Bacillus thuringiensis b) Azotobacter
- c) Azolla
- d) Clostridium
- 235. Which of the following helps in absorption of phosphorus from soil by plants?
- a) Rhizobium
- b) Frankia
- c) Anabaena
- d) Glomus

- 236. Both power and manure are provided by
 - a) Biogas
- b) Water gas
- c) Energy crops
- d) Nuclear plant

- 237. Opium is obtained from
 - a) Oryza sativa
- b) Selection
- c) Thea sinensis
- d) Papaver somniferum

- 238. The part of castor seed that yields oil is
 - a) Cotyledon
- b) Caruncle
- c) Endospherm
- d) Nucellus

- 239. Which one of the following is a viral disease of poultry?
 - a) Salmonellosis
- b) Coryza
- c) New castle disease
- d) Pasteurellosis

- 240. Which one of the following is a disease of poultry?
 - a) Foot and mouth disease

b) Pebrine disease

c) Anthrax

d) Ranikhet disease

241. Baculoviruses do not show harmful effect on I. plants II. Mammals III. bird IV. Non-target insects Choose the correct option a) I, III and III b) II, III and IV c) I, III and IV d) I, II, III and IV 242. Atropa belladonna yields medicine used for a) Gastric ulcers b) Checking the eyes d) Constipation c) Leprosy 243. The terminator gene technology causes a) Failure of seed setting after one generation b) Breakage of seed dormancy c) Early flowering in plants d) None of the above 244. What will your conclude, when a cow is crossed to a bull and the female progeny is yielding more milk than its mother? a) More number of genes for high yielding milk are inherited, only from the female parent b) More number of genes for high yielding milk are inherited only from the male parent c) More number of genes for high yielding milk are inherited from both the parents d) The progeny through mutation achieved more number of genes for high yielding milk 245. CFCL is situated at a) Delhi b) Faridabad c) Mumbai d) Amritsar 246. Insecticides usually act upon a) Digestive system b) Nervous system c) Circulatory system d) Muscular system 247. Study the following flow chart of biogas production and select the correct option for A, B and C Stage III В Organic acids Stage II A Soluable compounds Stage I or monomers Cellulose Hemicellulose Proteins a) A-Methanogenic bacteria, B-Fermentative microbes, C-CO₂ and hydrogen (biogas) b) A-Anaerobic microorganisms, B-*Methanococcus*, C-CO₂ and nitrogen (biogas) c) A-Fermentative microbes, B-Methanogenic bacteria, C-CO₂ and methane (biogas) d) A-Aerobic microorganisms, B-Methanobacter, C-CO₂ and methane (biogas) 248. Which of the following is used as biofertiliser? I. Cyanobacteria II. Yeast

- III. Symbiotic bacteria
- IV. Free living bacteria

Choose the correct option

- a) I, II and III
- b) I, III and IV
- c) II, III and IV
- d) I, II and IV
- 249. A commonly used mastigator called 'supari' is obtained from the plant
 - a) Acacia catechu
- b) Areca catechu
- c) Piper betel
- d) None of these

- 250. Which of the following is not used as a biopesticide?
 - a) Bacillus thuringiensis

- b) Trichoderma harzianum
- c) Nuclear Polyhedrosis Virus (NPV)
- d) Xanthomonas campestris
- 251. Which one of the following is not a biofertilizer?
 - a) *Rhizobium*
- b) *Nostoc*
- c) Mycorrhiza
- d) Agrobacterium

252. Which of the following is used as 'clotbuster'. For ren	noving clots from blood ves	ssels of patient who have
undergone myocardial infartion		D 0: 11
a) Ethanol b) Statins	c) Cycloporin-A	d) Streptokinase
253. Which of the following is an endogenic species of ear		
a) Octochaetonae serrata	b) <i>Lampito mauritti</i>	
c) Lumbricus teretris	d) All of the above	
254. Which bacteria are utilized in gobar gas plant?	12.371. 16.1. 1	
a) Methanogens	b) Nitrifying bacteria	
c) Ammonifying bacteria	d) Denitrifying bacteria	
255. Energy cropping is		
a) Production of ethanol	b) Production of methane	
c) Production of sugarcane	d) Production of gas	
256. What would happen if oxygen availability to activate	_	
a) It will slow down the rate of degradation of organi		
b) The centre of flocs will become anoxic, which wou		
c) Flocs would increase in size as anaerobic bacteria	would grow around flocs	
d) Protozoa would grow in large number		
257. <i>Asafoetida</i> is obtained from		
a) Roots and stem b) Leaves	c) Fruit	d) Flower
258. The plant most commonly used as green manure is		
a) Dilbergia sissoo b) Polyalthea	c) Sesbania aculeata	d) None of these
259. What happened when we inoculate Rhizobium in the	e wheat field?	
a) No increase in production (nitrogen content of soi	il remains same)	
b) A lot of increase in production (nitrogen content of	of soil increases)	
c) Fertility of soil decreases		
d) Fertility of soil increases		
260. In the biological treatment of sewage the masses of b	acteria held together by fu	ngal filament to form mesh
like structures called as	AHON .	
a) Activated sludge b) Aerobic process	c) Flocs	d) Anaerobic sludge
261. Toddy is		
I. a traditional drink of Southern India		
II. made by fermentation of sap from palm trees by b	acteria	
Which of the statements given above about toddy is/	are correct?	
a) Only I b) Only II	c) I and II	d) None of these
262. The symbiotic association of fungi with the roots of h	nigher plants is called	
a) Eubacteria b) Actinomycetes	c) Mycorrhiza	d) Lichen
263. Sunhemp is obtained from		
a) <i>Crotalaria juncea</i>	b) <i>Linum usitatissimum</i>	
c) <i>Corchorus capsularis</i>	d) None of these	
264. A common biocontrol agent for the control of plant d		
a) <i>Agrobacterium</i> b) <i>Glomus</i>	c) <i>Trichoderma</i>	d) Baculovirus
265. Three crops that contribute maximum to global food	•	,
a) Wheat, rice and maize	b) Wheat, maize and sorgl	hum
c) Rice, maize and sorghum	d) Wheat, rice and barley	
266. Pomato is	,,	
a) Natural mutant b) Somatic hybrid	c) Androgenic hybrid	d) Somaclonal variant
267. The large holes in swiss cheese are due to production		
A and B refers to		ay a succession in a maintaine
a) A-CO ₂ : B- <i>Penicillium roqueforti</i>	b) A-CO ₂ : B- <i>Propionibact</i> o	erium sharmanii

c) A-CO ₂ ; B- <i>Penicillium</i>	notatum	d) A-CO ₂ ; B- <i>Saccharomy</i>	ces cerevisiae
	268. The primary treatment of waste water involves the removal of		
a) Dissolved impurities	b) Stable and particles	c) Toxic substances	d) Harmful bacteria
269. Green manures are prep	*	,	,
a) <i>Saccharum officinaru</i> .		b) <i>Zea mays</i>	
c) <i>Crotalaria juncea</i>		d) <i>Sorghum vulgare</i>	
270. Crossing of unrelated pu	re breeding animals of diffe		e breed is called
a) cross breeding		b) Out crossing	
c) Close breeding		d) Species hybridization	
271. Heroin is obtained from	plant of family	,	
a) Papaveraceae	b) Leguminosae	c) Cruciferae	d) Liliaceae
272. Disease resistance crop i	· ·	e, eruenerue	u) zmaccac
a) Crossing with new va		b) Crossing with wild var	rieties
c) Injecting with organic		d) None of the above	
273. Mating between two ind	-	•	ation is called
a) Domestication	b) Introduction	c) Hybridization	d) Mutation
274. Carbamates pesticides a			*
carbamate?	et by combining with acceys	enonnesterase enzyme. w	men one of the following is a
a) Propoxur (baygon)	b) Aldicarb (temik)	c) Carbofuran (furadan)	d) All of these
275. The nutritive medium fo		-	
a) Culture media	i growing bacteria and mar	b) Fermentation media	canca
c) Baking media		d) None of these	
276. Which of the following s	tatament is correct?	u) None of these	
		important mobilisors of ph	osphates and potassium for
plant nutrition in soil	s Anabaena anu Nostot are	important modifisers of pi	ospilates and potassium for
_	ssible to grow maize withou	it chamical fortilisars	
	nicals fertilisers may lead to		water hodies
-	. <i>Rhizobium</i> fix atmospheric		
277. Mycorrhiza promotes pl		. Tha ogen in root noutles (n plants
a) Absorbing inorganic i	= -		
	tilizing atmospheric nitroge	nn	
c) Protecting the plant fi		:11	
d) Serving as plant grow			
278. Rotenone is a	til regulator		
a) Bioherbicide	ntilizon		
b) Commonly used biofe	runzer		
c) Bioinsecticide			
d) Juvenile hormone	ia addad to the freak wills in	and on to consent wells into	and the town stanton or
279. The starter or inoculum	is added to the fresh milk if	i order to convert milk into	cura, the term starter or
inoculum here refers to	p	In Description of the conservation	
a) Bacteria rich in vitam		b) Bacteria rich in protei	n
c) Bacteria containing m		d) All of the above	
280. 'Nagkesar' is obtained fr) IV I I .	
a) <i>Mesua ferrea</i>	b) <i>Crocus sativus</i>	c) <i>Viola odorata</i>	d) <i>Centella asiatica</i>
281. The larvicidial fish used			
a) <i>Gambusia</i>	b) <i>Hilsa</i>	c) Scalophagus	d) Gold fish
282. Which one of the followi			
a) Coffee plant	b) <i>Eichhornia</i>	c) Congress weed	d) Cocoa
283. Green potatoes are toxic	due to		

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a) Phytoalexins	b) Solanin	c) Triazine	d) Hormones
284. Baker's yeast is			·
a) <i>Propionibacterium s</i> .	harmanii		
b) <i>Saccharomyces cere</i> i	visiae		
c) <i>Trichoderma polysp</i> e	orum		
d) <i>Lactobacillus</i>			
285. Which one is not produc	ced by aquaculture?		
a) Oyster	b) Silkworm	c) Singhara	d) Frog
286. Intoxicant caffeine is for	und in		
a) Tea	b) Coffee	c) Cocoa	d) All of these
287. The purpose of biologic	al treatment of waste water	is to	
a) Reduce BOD			
b) Increase BOD			
c) Reduce sedimentatio	n		
d) Increase sedimentati	on		
288. International Rice Research	arch Institute (IRRI) is locate	ed at	
a) Hyderabad (India)		b) Manila (Philippines)	
c) New York (USA)		d) Tokyo (Japan)	
289. Regulation to restrict th	•	nt material from one place	to another are called
a) Plant regulations	b) Plant quarantine	c) Plant protection	d) Crop rotation
290. Which of the following i	· ·		
a) N ₂ -fixer microbes	b) Prokaryotic organism		d) Eukaryotic organism
291. Plants having similar ge			
a) Haploid	b) Autoploid	c) Clone	d) None of these
292. Quinine is obtained from			
a) Bark of <i>Cinchona</i>	b) Root of <i>cinchona</i>	c) Wood of <i>cinchona</i>	d) Leaves of <i>cinchona</i>
293. Which of the following j		e Ministry of Environment	and Forests to protect
rivers from water pollu		ALIVIN	
a) Ganga action plan	b) Yamuna action plan	c) Both (a) and (b)	d) Neither (a) nor (b)
294. In rice fields biological i	_	- -	D 514 14
a) Lichen	b) Brown algae	c) Cyanobacteria	d) <i>Rhizobium</i>
295. Which of the following i	•		
a) Central Rice Research			
	esearch Institute – Delhi		
c) Central Drug Researc			
	logy Research Institute – My		1 .1 . 1 1
296. Sewage or municipal wa	aste should not be directly p	assed into rivers, streams a	ind other water bodies
because			
	reta and other organic wast	9	
II. it contains a number			
	given above is/are correct?) D (1 (1) (1)	1) NI C.1 1
a) Only I	b) Only II	c) Both (a) and (b)	d) None of the above
297. Turpentine oil is obtain		-) Procedure	J) All - C+l
a) <i>Pinus longifolia</i>	b) <i>Melia azadirachta</i>	c) <i>Eucalyptus</i>	d) All of these
298. Curd is formed by addir	=		d) Nana of these
a) Starter	b) Inoculum	c) Both (a) and (b)	d) None of these
299. Statins used as blood ch a) Algae	lolesterol lowering agents ar	e extracted from c) Virus	d) Bacteria
a i Aigae	OT TEAST	CIVIIUS	ui Dallella

a) Diploid	b) Tetraploid	c) Pentaploid	d) Hexaploid
301. A good example for organic fertilizer, which improves phosphorus uptake, is			
a) A M fungi	b) Rhizobium	c) Azosprillum	d) None of these
302. Cricket bat is made from	the wood of		
a) <i>Pinus walichiana</i>	b) <i>Shorea robusta</i>	c) <i>Salix sp</i>	d) <i>Cedrus deodara</i>
303. Consider the following s	tatements about <i>Bt</i>		
I. The bacteria Bacillus	thuringiensis (Bt) are used	d to control butterfly catter	pillers
II. Fresh spores of Bt are	e mixed with water and spra	yed on seeds such as brass	sicas and fruit trees
III. Insect larvae, after ea	ating these are killed by the	toxin released in their gut	
IV. Bt toxin genes have l	peen introduced into plants	to provide resistance to pe	sts
Which of the statements	given above are correct?		
a) I, II and III	b) I, III and IV	c) II, III and IV	d) I, II, III and IV
304. Hybrid vigour is mostly	due to		
a) Superiority of all the	genes	b) Homozygosity of pure	characters
c) Heterozygosity		d) None of the above	
305. Protein in silk thread is			
a) Fibroin	b) Keratin	c) Albumin	d) Globulin
306. Which of the following is	s a dual purpose breed?		
a) Sindhi	b) Deoni	c) Jersey	d) Sahiwal
307. Which is correctly match	ned?		
a) Apiculture – Honey b		b) Pisciculture – Silk mot	h
c) Sericulture – Fish		d) Aquaculture – Mosqui	to
308. In poultry, first deworm	ing is usually done around t	his age	
a) 4 weeks	b) 8 weeks	c) 12 weeks	d) 16 weeks
200 (Hatawasia) in walata dita	Name of the last o		
309. 'Heterosis' is related to			
a) Cloning	b) Selection	c) Hybridization	d) Introduction
		c) Hybridization	d) Introduction
a) Cloning		c) Hybridization b) <i>Triticum durum</i>	d) Introduction
a) Cloning 310. Which hexaploid wheat	is used to make bread?	LACITAL	d) Introduction
a) Cloning 310. Which hexaploid wheat a) <i>Triticum turgidum</i>	is used to make bread? n	b) <i>Triticum durum</i>	d) Introduction
a) Cloning310. Which hexaploid wheata) <i>Triticum turgidum</i>c) <i>Triticum monococcum</i>	is used to make bread? n	b) <i>Triticum durum</i>	d) Introduction
a) Cloning 310. Which hexaploid wheat a) <i>Triticum turgidum</i> c) <i>Triticum monococcum</i> 311. Somatic hybridization is	is used to make bread? n	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i>	
 a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding 	is used to make bread? n a technique of	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination	
 a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 	is used to make bread? n a technique of	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination	
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly	is used to make bread? n a technique of used b) Herbicide	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone	zation
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer	is used to make bread? n a technique of used b) Herbicide	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone	zation
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax	zation d) Insecticide d) Diarrhoea
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcus 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax	zation d) Insecticide d) Diarrhoea
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these disea a) Rinderpest 314. Which one of the follows	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax	zation d) Insecticide d) Diarrhoea
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II?	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax ly used to treat American so	zation d) Insecticide d) Diarrhoea oldiers wounded in World
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcus 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax ly used to treat American so	zation d) Insecticide d) Diarrhoea oldiers wounded in World
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase 315. Blue-green algae are man	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax ly used to treat American seconds. c) Statins the field of which crop? c) Rice	zation d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase 315. Blue-green algae are man a) Gram	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet	b) <i>Triticum durum</i> d) <i>Triticum aestivum</i> b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone <i>Babesia bigemina?</i> c) Anthrax ly used to treat American seconds. c) Statins the field of which crop? c) Rice	zation d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these disea a) Rinderpest 314. Which one of the follow War-II? a) Streptokinase 315. Blue-green algae are ma a) Gram 316. A water fern, which is us	is used to make bread? m a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet sed as a green manure in ric b) Mucor	b) Triticum durum d) Triticum aestivum b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone Babesia bigemina? c) Anthrax ly used to treat American se c) Statins the field of which crop? c) Rice e fields is	zation d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin d) Maize
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase 315. Blue-green algae are ma a) Gram 316. A water fern, which is us a) Salvinia	is used to make bread? m a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet sed as a green manure in ric b) Mucor	b) Triticum durum d) Triticum aestivum b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone Babesia bigemina? c) Anthrax ly used to treat American se c) Statins the field of which crop? c) Rice e fields is	zation d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin d) Maize
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase 315. Blue-green algae are ma a) Gram 316. A water fern, which is us a) Salvinia 317. A man made allopolyplo	is used to make bread? m a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet sed as a green manure in ric b) Mucor id cereal crop is b) Triticale	b) Triticum durum d) Triticum aestivum b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone Babesia bigemina? c) Anthrax ly used to treat American so c) Statins the field of which crop? c) Rice e fields is c) Aspergillus	d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin d) Maize d) Azolla
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcus 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase 315. Blue-green algae are ma a) Gram 316. A water fern, which is us a) Salvinia 317. A man made allopolyplo a) Hordeum vulgare	is used to make bread? m a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet sed as a green manure in ric b) Mucor id cereal crop is b) Triticale	b) Triticum durum d) Triticum aestivum b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone Babesia bigemina? c) Anthrax ly used to treat American so c) Statins the field of which crop? c) Rice e fields is c) Aspergillus	d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin d) Maize d) Azolla
a) Cloning 310. Which hexaploid wheat a) Triticum turgidum c) Triticum monococcum 311. Somatic hybridization is a) Natural breeding c) Artificial pollination 312. Allethrin is a commonly a) Fertilizer 313. Which one of these dises a) Rinderpest 314. Which one of the follows War-II? a) Streptokinase 315. Blue-green algae are ma a) Gram 316. A water fern, which is us a) Salvinia 317. A man made allopolyplo a) Hordeum vulgare 318. IPM (Integrated pest Ma	is used to make bread? n a technique of used b) Herbicide ases in animals is caused by b) Tick fever ang antibiotic was extensive b) Penicillin inly used as biofertilisers in b) Millet sed as a green manure in ric b) Mucor id cereal crop is b) Triticale anagement) involves b) Biological control	b) Triticum durum d) Triticum aestivum b) Natural pollination d) Somatic cells Hybridiz c) Growth hormone Babesia bigemina? c) Anthrax ly used to treat American se c) Statins the field of which crop? c) Rice e fields is c) Aspergillus c) Raphanobrassica	d) Insecticide d) Diarrhoea oldiers wounded in World d) Neomycin d) Maize d) Azolla d) Zea mays

320. Mosascus purpureus is	s a yeast (fungus) commer	cially used in the productio	n of	
a) Acetic acid		b) Ethanol		
c) Blood cholesterol lov	c) Blood cholesterol lowering statin		d) Streptokinase	
321. Study the following path	nogens .			
I. <i>Yersinia pestis</i>				
II. <i>Borrelia sp</i>				
III. <i>Odium albicans</i>				
IV. Microbacterium lepi	ae			
V. <i>Haemophilus gallinai</i>				
	se damage to poultry indus	stry?		
a) I and IV	b) III and V	c) II and V	d) IV and V	
	•		ich one of the following is left	
undegraded?	,	1 0 0 ,	5	
a) Hemicellulose	b) Cellulose	c) Lipids	d) Lignin	
323. The source of intoxicati	•		, 3	
a) <i>Sorghum vulgare</i>	b) <i>Arachis hypogea</i>	c) <i>Oryza sativa</i>	d) <i>Mangifera indica</i>	
324. Which of the following a	, ,,		,	
a) Eichhornia crassipes	=	c) Pistia stratiotes	d) Spirulina	
325. In which method electri	· ·	•	, op.,	
a) Fish finding	b) Light fishing	c) Gill net fishing	d) Electro fishing	
326. Which of following plan	, ,		,	
a) <i>Brassica</i>	b) <i>Zea mays</i>	c) <i>Pongamia</i>	d) <i>Jatropha</i>	
327. Stramonium is a drug ol			a) juu opiia	
a) Datura	b) <i>Ocimum</i>	c) <i>Rauwolffia</i>	d) <i>Asphodelus</i>	
328. Silk is obtained from	b) bemun	c) Radwonna	a) Asphouerus	
a) <i>Bombyx mori</i>	b) <i>Laccifera lacca</i>	c) <i>Apis melliffera</i>	d) None of these	
329. Caffeine, cocaine and an		c) ripis inclinicia	d) None of these	
a) Hallucinogens	b) Sedative	c) Tranquillizer	d) Stimulant	
330. Which one of the fungi i	The second second second		a) Stillulant	
a) <i>Lactobacillus bulgari</i>	-	b) <i>Penicillium bulgarici</i>	ne.	
c) <i>Aspergillus niger</i>	cus	d) <i>Rhizopus nigricans</i>	15	
331. Methanogens, particular	rly Mothanobactarium ar	, .	scie material and produce	
I. methane	ny methanobacteriani gi	ow anaerobicany on centure	isic material and produce	
II. carbon dioxide				
III. oxygen IV. ethane				
	o.m			
Choose the correct option		a) III and IV	d) I II and III	
a) I and II	b) I and III	c) III and IV	d) I, II and III	
332. Consider the following s				
		grow rapidly and form floo	s. Flocs are masses of	
	n fungal filaments to form			
	-	and thus reduce the bioche	emicai oxygen demand.	
	as reduced, the effluent is j			
_		ne sediment is called activat	_	
_	=		the remaining part is passed	
_	naerobic sludge digesters.			
_	-	bically digest bacteria and		
mixture of gases such as	s, carbon dioxide nitrogen	and carbon monoxide which	h form the biogas	

Which of the statements given above are correct?

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a) I, II, III and IV b) I, III, IV and V 333. Gobar gas contains mainly	c) II, III, IV and V	d) I, II, III, IV and V
a) CH_4 and CO_2 b) CH_4 and O_2	c) CH ₄ and H ₂	d) CH ₄ and SO ₂
334. One of the major difficulties in the biological contr		a) drī4 and boz
a) Method is less effective as compared with the u	_	
b) Predator does not always survive when transfe		
c) Predator develops a preference to other diets a		
d) Practical difficulty of introducing the predator	to specific area	
335. Study the following flow chart that shows curd for	rmation from milk and selec	t the correct option for A and
В		
Milk is incubated with curd		
\downarrow		
LAB shows growth in milk		
↓		
Production ofA		
↓ 		
Coagulation and digestion of milk protein		
↓ 		
Improved nutritional quality by increasedB	h) A lastis asid. D vitam	in D
 a) A-citric acid; B-vitamin-B₁₂ c) A-lactic acid; B-vitamin-C 	b) A-lactic acid; B-vitamd) A-citric acid; B-vitam	
336. Pencils are prepared from the wood of	uj A-citi ic aciti, b-vitaliii	III-D ₂
a) <i>Pinus vinaster</i>	b) <i>Juniperus virginiana</i>	
c) <i>Chamaecyparis piscifera</i>	d) <i>Abies pindrow</i>	
337. <i>Rauwolffia serpentina</i> is used in	a) Holes pinare w	
a) Curing high blood pressure	b) Kidney failure	
c) Eye defect	d) Diabetes	
338. Agriculture by using only biofertilisers is called	CATION	
a) Manuring b) Composting	c) Inorganic farming	d) Organic farming
339. Penicillin is the first antibiotic. It was discovered by	ру	
a) Alexander Flemming : 1928	b) Alexander Flemming	: 1930
c) S Waksman : 1928	d) S Waksman : 1930	
340. In paddy fields biological nitrogen fixation is chief	ly brought by	
a) Cyanobacteria b) Green algae	c) Mycorrhiza	d) <i>Rhizobium</i>
341. Superiority of hybrid over parents is		
a) Introduction b) Selection	c) Hybridized progeny	d) Hybrid vigour
342. Which of the following insecticides is obtained fro	•	
a) Cinerin b) Nicotine	c) Rotenone	d) Pyrethrum
343. Which of the following bacteria is present in the r		D 01 1:
a) Rhizobium b) Azotobacter 344. Which is a bioinsecticide?	c) Methanobacterium	d) Clostridium
	h) Anahaana	
a) Cactoblastis cactorumc) Bacillus thuringiensis	b) <i>Anabaena</i> d) <i>Rhizobium</i>	
345. Wonder wheat is new wheat variety developed by		
a) Mexico's international Wheat and Maize Impro		
b) Indian National Botanical Research Institute	venient center	
c) Australian Crop Improvement Center		
d) African Crop Improvement Center		
346. Which of the following in an opioid drug?		
0		

- a) Heroin
- b) Cocaine
- c) Marijuana
- d) Hashish

- 347. Select the correct statement from the following
 - a) Activated sludge sediment in settlement tanks of sewage treatment plant is a rich source of aerobic bacteria
 - b) Biogas is produced by the activity of aerobic bacteria on animal wastes
 - c) Methanobacterium is an aerobic bacterium found in rumen of cattle
 - d) Biogas, commonly called gobar gas is pure methane
- 348. Jute fibres are obtained from the
 - a) Secondary phloem

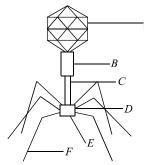
- c) Xylem
- d) Endodermis

- 349. Para rubber is obtained from the latex of
 - a) *Ficus elastica*
- b) Hevea brasiliensis
- c) Carica papaya
- d) *Musa paradisica*
- 350. Identify the blank species A, B, C and D given in the following table and select the correct answer

Types of	Scientific	Commercial,
Microbes	Name	Product
Bacterium	A	Lactic acid
Fungus	B	Cyclosporine-A
С	Monascus	Statins
	purpureus	
Fungus	Penicillium	D
	notatum	

- a) A-Lactobacillus, B-Trichoderma polysporum, C-Yeast, D-Penicillin
- b) A-Staphylococcus, B-Clostridium, C-Yeast, D-Penicillin
- c) A-Lactobacillus, B-Microsporum, C-Yeast, D-Penicillin
- d) A-Straphylococcus, B-Microsporum, C-Agaricus, D-Penicillin
- 351. Given below is the diagram of a virus bacteriophage. In which one of the option all the six parts A, B, C, D, E and *F* are correct?

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- a) A-Head, B-Tail, C-Collar, D-Pins, E-Plate, F-Prongs
- b) A-Head, B-Collar, C-Tail, D-Plate, E-Pins, F-Prongs
- c) A-Head, B-Tail, C-Collar, D-Plate, E-Prongs, F-Pins
- d) A-Head, B-Collar, C-Tail, D-Pins, E-Plate, F-Prongs
- 352. Consider the following statements
 - I. Antibiotics are chemical substances produced by some microorganisms which can kill or retard the growth of other disease-causing microorganisms
 - II. Penicillin is the first antibiotic discovered by Alexander Fleming (1928), while working o bacterium Staphylococcus aureus
 - III. The function of penicillin as an antibiotic was established by Ernst chain and Howard Florey Which of the statement given above are correct?
 - a) I and II
- b) I and III
- c) II and III
- d) I, II and III

- 353. Swiss cheese is formed by the bacterium
 - a) Aspergillus niger

b) *Lactobacillus*

c) *Propionibacterium sharmanii*

- d) Penicillium roqueforti
- 354. Azolla is used as a biofertilizer because it
 - a) Multiplies very fast to produce massive biomass
 - b) Has association of nitrogen-fixing Rhizobium
 - c) Has association of nitrogen-fixing cyanobacteria
 - d) Has association of mycorrhiza
- 355. Methanogens do not produce
 - a) Nitrogen
- b) Methane
- c) Hydrogen sulphide
- d) Carbon dioxide



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