# **Exercise-1**

**Marked Questions are for Revision Questions.** 

ONLY ONE OPTION (	CORRECT TYPE
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1.	Partially degraded cond (1) Sour cream	centrate of milk fat and ca	asein is called (3) Cheese	(4) Bread
2.	Indian curd is prepared (1) Lactobacillus acidop (3) Lactobacillus bulgar		d skimmed milk with (2) Leuconostoc cremo (4) Streptococcus lactis	
3.	The nutrient medium for (1) Barley malt	or beer is (2) Fermented rice	(3) Cashew-apple	(4) Potato
4.	Mark the incorrect optic (1) Wine	on (w.r.t. distilled alcoholi (2) Brandy	c beverages) (3) Run	(4) Gin
5.	Which of the following p (1) Tempeh	oroduct is not obtained fro (2) Tofu	om fermented soya sauc (3) Sufu	e? (4) Dosa
6.	Select the odd one out (1) Bacteria	w.r.t. source of antibiotic (2) Lichen	s (3) Fungi	(4) Seeded plants
7.	Statins are competitive inhibitor of  (1) Streptokinase  (2) HMG CoA reductase  (3) Pectinase  (4) Cellulase			
8.	Organic acid used in ph	narmaceuticals, colouring (2) Citric acid	agents and plastic indu	stries is (4) Gluconic acid
9.	In which of the following filtration and sedimenta (1) Primary treatment (3) Biological treatment	tion?	rticles are removed from (2) Secondary treatmer (4) Tertiary treatment	sewage through sequential
10.	Technology of biogas p	production was developed (2) KVIC	d in India mainly due to the (3) Both (1) & (2)	ne efforts of (4) ICAR
11.	Which of the following r (1) Methanobacterium	microorganism is involved (2) <i>Bacillu</i> s	d in last step of biogas pi (3) <i>Cellulomonas</i>	roduction? (4) <i>Ruminococcus</i>
12.	Mark the correct option (1) 50 - 70% H <sub>2</sub>	(w.r.t. composition of bio (2) 30 - 40% CO <sub>2</sub>	ogas) (3) 95% CH <sub>4</sub>	(4) 10% CO
13.	Biogas production is a (1) Three step microbia (3) Four step aerobic production is a		<ul><li>(2) Three step physical</li><li>(4) Four step anaerobic</li></ul>	•
14.	Which of the following b (1) Smoother crop	piopesticide does not allo (2) Baculovirus	w the weeds to grow nea (3) Rotenone	arby? (4) Catch I trap crop

15.	Which of the following (1) <i>Rhizobium</i>	g microbe is most active ni (2) <i>Rhodospirillum</i>	trogen fixer in rice field i (3) <i>Frankia</i>	n India? (4) <i>Aulosira</i>	
16.	Plants having mycorr (1) Resistance to roo (3) Nitrogen fixation	hizal association show t-borne pathogens	<ul><li>(2) Tolerance to salinity and drought</li><li>(4) More than one option is correct</li></ul>		
17.	Select the odd one of (1) Bacteria	ut w.r.t. biofertilisers (2) Fungi	(3) Cyanobacteria	(4) Viruses	
18.	First mycoherbicide of (1) <i>Trichoderma harz</i> (3) <i>Cactoblastis cacto</i>		rom (2) Phytophthora palm (4) Pythium debaryant		
19.	Concept of sustainable agriculture lies in (1) Minimizing bio pesticides (2) A greater dependence on new crops (3) Least use of bio fertilizers (4) Using spores of <i>Bacillus thuringlensis</i> for pest control				
20.	Find the odd one out (1) Cactoblastis cacto (3) Phytophthora pali	orum	(2) <i>Helianthus annus</i> (4) Cochliomyia		
21.	Sustainable agricultu (1) Eco-friendly cropp (3) IPM		<ul><li>(2) Green revolution</li><li>(4) Biological control</li></ul>		
22.	(1) Viruses and bacte	g is included in biopesticide ria only fungi, protozoa and mites	(2) Viruses, bacteria a	• •	
23.	Biofertilisers include (1) Blue-green algae, <i>Rhizobium</i> , other nitrogen fixing bacteria and mycorrhiza (2) Blue-green algae, <i>Trichoderma</i> , <i>Rhizobium</i> and other nitrogen-fixing bacteria (3) <i>Rhizobium</i> , other nitrogen-lixing bacteria, NPV and mycorrhiza (4) Blue green algae, <i>Rhizobium</i> , Bt and mycorrhiza				
24.	'Devine' and 'Collego (1) Biofertilizers	are two agricultural substa		(4) Bioherbicides	
25.	Ganga action Plan fo (1) 1985	r controlling pollution' in Ga (2) 1981	anges started in (3) 1987	(4) 1989	
26.	(1) They are used in (2) They are used in	chill proffing beer and whis I from <i>Byssochalmycs fulve</i>	ky		

27.	(1) Water is clear (3) Inorganic pollution	ater indicates		ater is fully po ecal pollution		
28.	In which stage of sewa (1) Primary treatment (3) Tertiary treatment	ge treatment des	(2) Se	n and chlorination of water is done? (2) Secondary treatment (4) Both (1) & (2)		
29.	, , ,		(2) Lo	w BOD timum dissol	ved oxygen	
30.			(2) Tri	of polluted water? (2) Tricking filter method (4) Activated sludge method		
31.	The greater BOD of wa (1) Increases oxygen c (3) The decrease of ter	ontent of water	(2) De	creases oxyo	gen content of water	
32.	Microbes cannot be cu (1) Bacteria	ltured in cell free (2) Fungi	extracts are (3) Vir	uses	(4) Algae	
33.	Most of the antibiotics a (1) Actinomycetes	are obtained fror (2) Eubacteria		y fungi	(4) Both (1) & (3)	
34.	LAB stands for (1) Lactic acid bacteria (3) Lactose acetaldhyd		` '	ctobacillus ad	cidophilus bacteria	
35.	Which of the following a. <i>Streptococcus therm</i> c. <i>Lactobacillus bulgari</i> (1) a, b, c	nophilus	b. Lactobacillud. Streptococu	is acidophilus is cremoris	s (4) a, d	
36.	The fermented food of (1) Tempeh	soyabean is (2) Tofu	(3) Fa	fu	(4) All of these	
37.	Which of the following (1) <i>Clostridium</i> (3) <i>Frankia</i>	is not a symbioti	(2) Rh	bacteria? nizobium legu rcobacterium		
38.	Cry protein is produced (1) <i>Phytophthora palmi</i> (3) <i>Nostoc</i>	•	(2) <i>Ba</i> (4) Sp	<i>cillus thuring</i> irulina	iensis	
39.	Biogas contains (1) 30%-40% Methane (3) 50%-70% Methane		` '	%-70% CO <sub>2</sub> % Methane		
40.	Citric acid is obtained b	oy all, except (2) <i>Mucor</i>	(3) Ye	ast	(4) Mortierella	

(1) a (iv), b (iii), c (ii), d (i)

(3) a (iii), b (iv), c (i), d (ii)

41.	Antibiotic obtained from (1) Neomycin	om lichens is (2) Usnic aci	d	(3) Polymixin Viridin	(4) Virio	din	
42.	Super bug is (1) Pseudomonas pu (3) Streptomyces ery			(2) bacillus anthrax (4) Mucor			
43.	Which bacterium is u		ation p	, ,			
	(1) Rhizobium sp.			(2) Pseudomonas pu	dita		
	(3) Bacillus lichenifor	rmis		(4) Streptococci			
44.	CDRI is located in						
	(1) Lucknow	(2) Kanpur		(3) Delhi	(4) Kar	nal	
45.	Viridin antibiotic is ef	fective against					
	(1) Bacteria			(2) Fungi			
	(3) Gram positive ba	cteria		(4) Gram negative ba	cteria		
46.	Which fungal extract	was extensively	used i	n teating wounded Americ	an soldiers	in world war-II?	
	(1) Streptomycin	(2) Penicillin		(3) Aflatoxin	(4) Glu	conic acid	
47.	Dosa and Idli are fermented preparation of rice and black Gram. The ferm (1) Leuconostoc (2) Streptococcus						
	(3) Saccharomyces			(4) more than one op	uon is con	eci	
48.	Wine yeast is			(0) 0			
	<ul><li>(1) Saccharomyces (</li><li>(3) S. pireformis</li></ul>	ellipsoidens		(2) S. sake (4) S. cerevisiae			
				(4) S. Cerevisiae			
49.	Amylases are employed for all, except						
	<ul><li>(1) Softening of brea</li><li>(3) Preparation of ch</li></ul>			<ul><li>(2) Clearing of turgidi</li><li>(4) Desizing of textile</li></ul>			
	, , ,			-	IIDIES		
50.	First step in biogas p			•	(4) D-4		
	(1) Obligate aerobes	(2) Decompo	sers	(3) Methanogens	(4) Det	rivores	
51.	Rotenone, a natural insecticide, is obtained from						
	(1) Azadirachta indic			(2) Derris sp.			
	(3) Bacillus thuringie	nsis		(4) Phytophthora pali	mivora		
52.	Fermented beverage		alcohol		(4) 0:		
	(1) Beer	(2) Brandy		(3) Whisky	(4) Gin		
53.	Find the correct mate	ch					
	Column I			Column II			
	a. Streptomyces		(i)	Neomycin			
	b. Streptomyces		(ii)	Gentamycin			
		perma purpurea	(iii)	Chloramphenicol / Chloro			
	d. Streptomyces	s tradiae	(iv)	Oxytetracycline / Terramy	ycin		

(2) a (iv), b (ii), c (iii), d (i) (4) a (iii), b (iv), c (ii), d (i) 54.

	(1) Coconut palms	(2) cotton	(3) Wheat	(4) Mango	
55.	Which of the following	is incorrect matche	ed?		
	(1) VAM -	Phosphate abso	rption		
	(2) Soyabean -	Smoother crop			
	(3) Ozone gas -	Primary treatme	nt		
	(4) Ecdysone -	Juvenile hormon			
56.	Which of the following three are wrong?  (1) mortierella rend (2) Aspergillus nig (3) Streptococci	ispora - Pe er - Si	ing of a microbe and Its ectinase treptokinase issue plasminogen activa	Industrial product, while the r	emaining
	(4) Lactobacillus b		luconic acid	101	
57.	stating which ones are (A) Produces food cro (B) Uses biofertilisers (C) There is more use	e true (T) and which ps rich in lipids, vita which increases so of chemical fertilise	n ones are false (F). The amins and iron bil fertility		t option
58.	<ul><li>(A) Dough, which is u</li><li>(B) Toddy, a tradition</li><li>(C) Large holes in Propionibacterium</li></ul>	sed for making food al drink of southern 'Swiss cheese' a a sharmanii ctic acid bacteria p tements having mis d (C)	India is made by fermenare due to production lay very beneficial role in	s fermented by fungi and alg ting sap from palms. of large amount of met checking disease - causing of A) and (B)	thane by
59.	by h	as been commerc	` , ` , ,	ug named as (A) erol lowering agents, which olesterol.	•
	Blank A	, , , , , , ,	Blank B		
	(1) Cyclosporin A		Tticncaerms polys	porum	
	(2) Statins		Monascus purpure		
	(3) Penicillin		Penicillium notatur		
	(4) Streptokinase		Streptococcus		
			·		

NPV based insecticide has been found to eliminate bollworms which causes extensive damage to

60.	Secondary treatment of sewage  (1) Removes grit and large of organic matter  (2) Involves shredding, churning, filtration and sedimentation  (3) Does not require aeration  (4) Involves microbial digestion of organic matter				
61.	Agricultural chemicals (1) Pesticides	s include (2) Fertilizers	(3) Growth regulaors	(4) All of these	
62.	Biofertilizers include (1) Nitrogen fixing bac (3) Both bacteria and		(2) Nitrogen fixing cyar (4) Bacteria, cyanobac	nobacteria eteria and mycorrhizal fungi	
63.	Most famous nitrogen (1) Nitrobacter	fixing bacterium/biofertil	izer is (3) Nitrococcus	(4) Rhizobium	
64.	BT cotton is resistant (1) Insect	to (2) Herbicides	(3) Salt	(4) Drough	
65.	Which one is green m	nanure/biofertilizer? (2) Miaze	(3) Rice	(4) Oat	
66.	Enzyme required for r	nitrogen fixation is (2) Nitroreductase	(3) Transaminase	(4) Transferase	
67.	Lactic Acid Bacteria (quality by enhancing (1) A		ature converts milk to cu	rd, which improves its nutritional  (4) D	
68.			mophilus		
69.	Choose incorrect statement  (1) Penicillin antibiotic extensively used to treat American soldiers wounded in World War II.  (2) Lipase are used in detergent formation and are helpful in removing oily stains from the laundry.  (3) Remaining major part of the sluge is pumped into larger tanks called anaerobic sludge digestors.  (4) Methanogen bacteria are commonly found in the aerobic slugde during sewage treatment.				
70.	<ul> <li>Choose incorrect statement</li> <li>(1) Microbes like bacteria &amp; many fungi cultures are usefuls in studies on micro-organism.</li> <li>(2) During growth, the LAB produce acids that coagulate and partially digest the milk proteins.</li> <li>(3) Roquefort cheese are ripened by growing a specific fungi on them, which gives them a particular flavour.</li> <li>(4) Wine &amp; beer are produced by distillation of fermented broth.</li> </ul>				
71.	(1) Gas Authority of Ir (2) Oil and Natural Ga	ndia as Commission Research Institute and h	dung was developed in I	ndia largely due to the efforts of  Commission	

1.

#### **MISCELLANEOUS QUESTIONS**

1.	Broad spectrum antibiotic is that which (1) Acts on both pathogens and hosts (2) Acts on all bacteria and niruses (3) Acts on a variety of pathogenic micro-organisms (4) Is effective in very small amounts						
2.	Antibiotics inhibit the growth of or destroy (1) Bacteria and fungi (2) Bacteria and viruses (3) Bacteria, algae and viruses (4) Bacteria, fungi and viruses						
3.	Important objective of biotechnology in agriculture section is  (1) To produce pest resistant varieties of plant  (2) To increase the nitrogen content  (3) To decrease the seed number  (4) To increase the plant weight						
4.	Biogas can be a good s	substitute for (2) Petroleum and oil	(3) Coal	(4) Charcoal			
5.	Penicillin was discovere (1) Waksman	ed by (2) Dubois	(3) Roberk Koch	(4) A. Flemming			
6.	Yoghurt is produced with the help of  (1) Lactobacillus bulgaricus and Lactobcillus thermophilus  (2) Lactobacillus thermophilus and Streptocccus thermophilus  (3) Lactobacillus bulgaricus Streptocccus themophilus  (4) Lactobacillus kefir and Streptocccus thermophilus						
7.	Cyclosporin A, used as (1) Trichoderma		ent in organ transplants, (3) Streptococcus				
8.	The bacterium that help (1) Clostridium	os in breakdown of cellul (2) Lactobacillus	ose in rumen of cattle is (3) Methanobacterium	(4) Escherichia			
9.	Large holes in Swiss ch (1) Propionibacterium	neese are formed due to (2) Mycobacterium	production of a large am (3) Saccharomyces	ount of CO <sub>2</sub> by (4) Penicillium			
10.	The fungus used for co (1) Clostridium	mmercial production of o	citric acid is : (3) Aspergillus	(4) Penicillium			

## Exercise-2

1. Match list - I with list-II and select the correct answer using the codes given below the lists:

List - I

List - II

[2<sup>nd</sup> NSO I L]

- (A) Ficus bengalensis
- (i) fibre
- (B) Melia azadirachta
- (ii) pesticide

(C) Cocos nucifera

- (iii) latex
- (D) Hevea brasiliensis
- (1) (A) (i) , (B) (ii) ,(C) (iii) , (D) (ii)
- (2) (A) (iii) , (B) (i) ,(C) (ii) , (D) (iii)
- (3) (A) (iii) , (B) (iii) ,(C) (i) , (D) (ii)
- (4) (A) (iii) , (B) (ii) ,(C) (i) , (D) (iii)
- 2. The function of nitrogen fixation in *Anabaena* (cyanobacterium) is performed by

[1st NSEB]

- (1) Thylakoid
- (2) Heterocyst
- (3) Phycocyanin
- (4) Phycoerythrin
- 3. Farmers need to apply less nitrogenous fertilizers to fields if one of these plants are present [FINBO]
  - (1) Rhodophyceae
- (2) Spirogyra
- (3) Azolla spp.
- (4) Weeds

### **Exercise-3**

#### PART - I: NEET / AIPMT QUESTION (PREVIOUS YEARS)

1. Which of the following is not used as a biopesticide?

(AIPMT-2009)

(1) Bacillus thuringiensis

- (2) Trichoderma harzianum
- (3) Nuclear Polyhedrosis Virus (NPV)
- (4) Xanthomonas compestris
- 2. The bacterium *Bacillus thuringiensis* is widely used in contemporary biology as
- (AIPMT-2009)

- (1) Indicator of water pollution
- (2) Insecticide
- (3) Agent for production of dairy products
- (4) Source of industrial enzyme
- **3.** The common nitrogen-fixer in paddy fields is

(AIPMT-2010)

(1) Azospirillum

(2) Oscillatoria

(3) Frankia

- (4) Rhizobium
- **4.** One of the free-living anaerobic nitrogen-fixer is

(AIPMT-2010)

(1) Rhodospirillum

(2) Rhizobium

(3) Azotobacter

- (4) Beijernickia
- 5. The biomass available for consumption by the herbivores and decomposers is called
- (AIPMT-2010)

(1) Secondary productivity

- (2) Standing crop
- (3) Gross primary productivity
- (4) Net primary productivity

6.	Select the correct state	ement from the following			(AIPMT-2010)	
	(1) Methanobaeterium is aerobic bacterium found in rumen of cattle					
	(2) Biogas, commonly	(2) Biogas, commonly called gobar gas, is pure methane				
	(3) Activated sludge- aearobic bacteria	sediment in settlement	tanks of sewage treat	ment plant is a	rich source of	
	(4) Biogas is produce	d by the activity of aerob	ic bacteria on animal wa	ste		
7.	dB is a standard abbre	eviation used for the qua	ntitative expression of		(AIPMT-2010)	
	(1) A particular polluta	nt	(2) The dominant Baci	Ilus in a culture		
	(3) A certain pesticide		(4) The density of bac	teria in a medium		
8.	Stirred-tank bioreactor	rs have been designed fo	or		(AIPMT-2010)	
	(1) Purification of the p	oroduct				
	(2) Ensuring anaerobic	c conditions in the culture	e vessel			
	(3) Availability of oxyg	en thronghout the proces	SS			
	(4) Addition of preserv	atives to the product				
9.	A common biocontrol	agent for the control of p	lant disease is		(AIPMT-2010)	
	(1) Bacillus thruingiens	sis	(2) Glomus			
	(3) Trichoderma		(4) Baculovirus			
10.	Which one of the follow	wing is not used in orgar	nic farming		(AIPMT-2010)	
	(1) Earthworm	(2) Oscillatoria	(3) Snail	(4) Glomus		
11.	Which one of the following remaining three are co	•	ching of a microbe and	its industrial pro	duct, while the	
	(1) Yeast - statins		(2) Acetobacter aceti -	acetic		
	(3) Clostridium butylica	um - lactic acid	(4) Aspergillus niger -	citric acid		
12.	Consider the following	Consider the following statements (A-D) about organic farming (AIPMT-2011)				
	(A) Utilizes genetically	(A) Utilizes genetically modified crops like Bt cotton				
	(B) Uses only naturally	(B) Uses only naturally produced inputs like compost				
	(C) Does not use pest	(C) Does not use pesticides and urea				
	(D) Produces vegetables rich in vitamins and minerals					
	Which of the above sta	atements are correct?				
	(1) (B), (C) and (D)		(2) (C) and (D) only			
	(3) (B) and (C) only		(4) (A) and (B) only			
13.	Bacillus thuringiensis t	forms protein crystals wh	nich contain insecticidal p	rotein	(AIPMT-2011)	
	(1) binds with epithelia	(1) binds with epithelial cells of midgut of the insect pest ultimately killing it				
	(2) is coded by several genes including the gene cry					
	(3) is activated by acid pH of the foregut of the insect pest					
	(4) does not kill the ca	rrier bacterium which is	tself resistant to this toxi	n		
14.	In gobar gas, the max	imum amount is that of		(AIP	MT Main-2012)	
	(1) Butane	(2) Methane	(3) Propane	(4) Carbon diox	kide	

					•
15.	The domestic sewage	e in large cities		(AIPI	MT Main-2012)
	(1) has a high BOD a	as it contains both aero	bic and anaerobic bacteria		
	(2) is processed by Treatment Plants		aerobic bacteria in the s	secondary treatmo	ent in Sewage
	(3) when treated in 3 oxygen.	STPs does not really re	equire the aeration step a	s the sewage con	itains adequate
	(4) has very high am	ounts of suspended so	lids and dissolved salts		
16.	During sewage treatment, biogases are produced which include (1) Methane, Oxygen, Hydrogensulphide (2) Hydrogensulphide, Methane, Sulphur dioxide (3) Hydrogensulphide, Nitrogen, Methane (4) Methane, Hydrogensulphide, Carbon dioxide				(NEET-2013)
17.	Which one of the following Bt crops is being grown in India by the farmers?				(NEET-2013)
	(1) Cotton	(2) Brinjal	(3) Soybean	(4) Maize	
18.	A good producer of ci	tric acid is			(NEET-2013)
	(1) Pseudomonas	(2) Clostridium	(3) Saccharomyces	(4) Aspergillus	,
19.	An alga which can be	employed as food for	human beings:		(AIPMT-2014)
	(1) Ulothrix	(2) Chlorella	(3) Spirogyra	(4) Polysiphoni	ia .
20.	What gases are production (1) Methane and CO <sub>2</sub>	uced in anaerobic sludç	ge digesters?		(AIPMT-2014)

- (2) Methane, Hydrogen Sulphide and CO<sub>2</sub>
  - (3) Methane, Hydrogen Sulphide and CO<sub>2</sub>
  - (4) Hydrogen Sulphide and CO<sub>2</sub>
- **21.** Match the following list of microbes and their importance:

(Re-AIPMT-2015)

(a)	Sacharomyces cerevisiae	(i)	Production of immunosuppressive agents
(b)	Monascus purpureus	(ii)	Ripening of Swiss cheese
(c)	Trichodemra polysporum	(iii)	Commerical production of ethanol
(d)	Propionibacterium sharmanii	(iv)	Production of blood cholesterol lowering agents

	(a)	(b)	(c)	(d)
(1)	(iv)	(iii)	(ii)	(i)
(2)	(iv)	(ii)	(i)	(iii)
(3)	(iii)	(i)	(iv)	(ii)
(4)	(iii)	(iv)	(i)	(ii)

22. Which of the following is wrongly matched in the given table? (NEET-1-2016) **Microbe Product Application** (1) Clostridium butylicum Lipase removal of oil stains (2) Cyclosporin A Trichoderma polysporum immunosuppressive drug (3)**Statins** lowering of blood cholesterol Monascus purpureus (4) Streptococcus Streptokinase removal of clot from blood vessel 23. Which of the following statements is wrong for viroids? (NEET-1-2016) (1) Their RNA is of high molecular weight (2) They lack a protein coat (3) They are smaller than viruses (4) They cause infections 24. A river with an inflow of domestic sewage rich in organic waste may result in : (NEET-1-2016) (1) Death of fish due to lack of oxygen. (2) Drying of the river very soon due to algal bloom. (3) Increased population of aquatic food web organisms. (4) An increased production of fish due to biodegradable nutrients 25. Match Column-I with Column-II and select the correct option using the codes given below: (NEET-2-2016) Column-I Column-II a. Citric acid (i) Trichoderma b. Cyclosporin A (ii) Clostridium c. Statins (iii) Aspergillus d. Butyric (iv) Monascus Codes: b d С а (1) (iii) (iv) (ii) (i) (2)(iii) (i) (ii) (iv) (3)(ii) (iii) (i) (iv) (4) (i) (iv) (ii) (iii) 26. Biochemical Oxygen Demand (BOD) may not be good index for pollution for water bodies receiving effluents from (NEET-2-2016) (1) sugar industry (2) domestic sewage (3) dairy industry (4) petroleum industry 27. Which of the following in sewage treatment removes suspended solids? (NEET-2017) (1) Tertiary treatment (2) Secondary treatment (3) Primary treatment (4) Sludge treatment 28. Which of the following is correctly matched for the product produced by them? (NEET-2017) (1) Acetoacter aceti: Antibiotics (2) Methanobacterium: lactic acid (3) Penicillium notatum: Acetic acid (4) Sacchromyces cerevsiae: Ethanol 29. Conversion of milk to curd improves its nutritional value by increasing the amount of (NEET-2018) (1) Vitamin D (2) Vitamin E (3) Vitamin B<sub>12</sub> (4) Vitamin A

30.	Which of the following is a commercial blood cholesterol lowering agent? (NEET-1												
	(1) Lip	oases		(2) C	yclosporin A	(3) Statin	(3) Statin (4) Streptok						
31.	Match	the foll	owing o	rganism	s with the produ	icts they produce:	ts they produce: (NE						
	(a) La	ctobacil	llus			(i) Cheese	• •						
	(b) Sa	accharor	myces ce	erevisiae	Э	(ii) Curd	(ii) Curd						
	(c) As	pergillus	s niger			(iii) Citric Acid	(iii) Citric Acid						
	(d) Ac	etobact	er aceti			(iv) Bread	(iv) Bread						
						(v) Acetic Acid							
	Selec	t the co	rrect opti	ion.									
		(a)	(b)	(c)	(d)								
	(1)	(ii)	(i)	(iii)	(v)								
	(2)	(ii)	(iv)	(v)	(iii)								
	(3)	(ii)	(iv)	(iii)	(v)								
	(4)	(iii)	(iv)	(v)	(i)								
32.	Selec	(NEET-	-1-2019)										
	(1) Nostoc, Azospirillium, Nucleopolyhedrovirus												
	(2) Bacillus thuringiensis, Tobacco mosaic virus, Aphids												
	(3) Trichoderma, Baculovirus, Bacillus thuringiensis												
	(4) Os	scillatori	a, Rhizo	bium, Tı	richoderma								
33.	Among the following pairs of microbes, which pair has both the microbes that can be used a												
		tilizers?	_	J					-2-2019)				
			s and Rh	nizopus		(2) Rhizobium and	Rhizopus	<b>(</b>	,				
		-	teria and	-	ium	(4) Aspergillus and	•	ria					
	PART - II : AIIMS QUESTION (PREVIOUS YEARS)												
						•			(AIIMS-2014)				
1.	Chlora	amphen	icol and	erythror	nycin (Broad sp	pectrum antibiotics) are	ctrum antibiotics) are produced by						
	(1) St	reptomy	ces	(2) Ni	trobacter	(3) Rhizobium	(4) Pen	icillium					
2.	Choos	se the ri	ght com	bination					(AIIMS-2016)				
	Colur	nn-l				Column-II							
	A. Es	cherichi	a coli			I. Nif gene							
	B. Rh	izobium	melilota	ie		II. Digestive hydrocarbon of crude oil							
	C. Ba	cillus th	uringien	sis		III. Production of human insulin							
	D. Ps	eudomo	onas puti	ida		IV. Biological control of fungal disease							
						V. Bio- decomposed insectiside							
	(1) A-	III, B-I, (	C-V, D-I\	/		(2) A-I, B-II, C-III, D-IV							
	(3) A-	II, B-I, C	C-III, D-I\	/		(4) A-III, B-I, C-V,	(4) A-III, B-I, C-V, D-II						
3.	Which	n of the f	following	j is not u	sed as a biope	sticide?			(AIIMS-2017)				

(1) Bacillus thuringiensis

- (2) Xanthomonas campestris
- (3) Nuclear Polyhedrosis Virus (NPV)
- (4) Trichoderma horzianum
- Match Column-I (microbes) to the Column-II (biological products) and select the option having correct matching.

  (AIIMS-2018-I)

Column-I

Column-II

(A) Acetobacter aceti

(i) Citric acid

(B) Clostridium butylicum

(ii) Latic acid

(C) Aspergillus niger

(iii) Acetic acid

(D) Lactobacillus

(iv) Butyric acid

**Options** 

- (1) A-(ii), B-(i), C-(iii), D-(iv)
- (2) A-(iii), B-(ii), C-(i), D-(iv)

- (3) A-(iii), B-(iv), C-(i), D-(ii)
- (4) A-(iv), B-(iii), C-(ii), D-(i)
- **5.** Match column-I with column-II and select the option having correct matching –

(AIIMS-2018-III)

	Column-I	Column-II				
A.	Streptokinase	i.	Penicillium notatum			
B.	Statins	ii.	Monascus purpureus			
C.	Cyclosporin-A	iii	Streptococcus			
D.	Penicillin	iv.	Trichoderma			

**6.** Which among the following alcoholic beverage will be formed by distillation?

(AIIMS-2018-IV)

- (1) Brandy
- (2) Wine
- (3) Beer
- (4) AII

$\Lambda$	n	CI			re
-		$\sim 1$	Α.	U	13

						EXER	CISE -	· 1					
1.	(3)	2.	(1)	3.	(1)	4.	(1)	5.	(4)	6.	(4)	7.	(2)
8.	(1)	9.	(1)	10.	(3)	11.	(1)	12.	(2)	13.	(1)	14.	(1)
15.	(4)	16.	(4)	17.	(4)	18.	(2)	19.	(4)	20.	(4)	21.	(2)
22.	(3)	23.	(1)	24.	(4)	25.	(1)	26.	(2)	27.	(4)	28.	(3)
29.	(3)	30.	(3)	31.	(2)	32.	(3)	33.	(4)	34.	(1)	35.	(3)
36.	(4)	37.	(1)	38.	(2)	39.	(3)	40.	(4)	41.	(2)	42.	(1)
43.	(2)	44.	(1)	45.	(2)	46.	(2)	47.	(4)	48.	(1)	49.	(3)
50.	(2)	51.	(2)	<b>52.</b>	(2)	53.	(4)	54.	(2)	55.	(3)	56.	(3)
57.	(2)	58.	(1)	59.	(2)	60.	(4)	61.	(4)	62.	(4)	63.	(4)
64.	(1)	65.	(1)	66.	(1)	67.	(2)	68.	(4)	69.	(4)	70.	(4)
71.	(3)												
				М	ISCEL	LANE	OUS Q	UESTI	ONS				
1.	(3)	2.	(1)	3.	(1)	4.	(1)	5.	(4)	6.	(3)	7.	(1)
8.	(3)	9.	(1)	10.	(3)								
						EXER	CISE -	2					
1.	(4)	2.	(2)	3.	(3)								
						EXER	CISE -	. 3					
						PA	ART- I						
1.	(4)	2.	(2)	3.	(1)	4.	(3)	5.	(4)	6.	(3)	7.	(1)
8.	(3)	9.	(3)	10.	(3)	11.	(3)	12.	(3)	13.	(1)	14.	(2)
15.	(2)	16.	(4)	17.	(1)	18.	(4)	19.	(2)	20.	(2)	21.	(4)
22.	(1)	23.	(1)	24.	(1)	25.	(3)	26.	(4)	27.	(3)	28.	(4)
29.	(3)	30.	(3)	31.	(3)	32.	(3)	33.	(3)				
						PA	RT- II						
1.	(1)	2.	(4)	3.	(2)	4.	(3)	5.	(3)	6.	(1)		