NEET: CHAPTER WISE TEST-8 SUBJECT:-BIOLOGY DATE..... CLASS:- 12th NAME..... **CHAPTER: - MICROBES IN HUMAN WELFARE** SECTION..... (SECTION-A) Look at the figure, and select the correct 1. 6. Milk preparation in which fruit or fruit flavor option. is added called (A) Cheese (B) Buttermilk (C) Curd (D) Yogurt 7. Identify A and B in the following sentence: Swiss cheese has large holes due to production of large amount of "A" by the activity of "B." (A) A - Ethanol; B-Penicillium sp. (B) A - CO₂; B-Propionibacterium sharmanii (A) This is a prokaryote that causes (C) A CO₂: B-Saccharomyces cerevisiae respiratory disorder. (D) A-Methane; B-Methanogens (B) This is a nucleoprotein particle that is capable of causing respiratory infections. In the fermentation of dough and cheese 8. (C) This is an adenovirus that causes making, the main gas produced is urinary infections (A) Methane and H₂ (D) This is a fungal colony growing in a (B) Methane, CO₂ and H₂ Petri dish. (C) Carbon dioxide (D) Carbon monoxide 2. Read the following four statements. Find out correct option with respect to lactic 9. Swiss cheese and camembert cheese are acid bacteria. ripened by a _____ and a_____ A. They produce acids the coagulate and respectively. (A) Bacterium, yeast. partially digest milk fat. (B) Penicillium sp., bacterium. B. They require suitable temperature for (C) Bacterium, Penicillium sp. their multiplication. (D) Yeast, bacterium. C. They play a beneficial role by checking disease- causing microbes in our stomach. 10. Read the following statements, and state D. They improve the nutritional quality by true (T) or false (F). increasing the amount of riboflavin. A. In stomach, lactic acid bacteria play a (A) (A) and (C) (B) (B) and (D) very beneficial role in checking disease-(C) (B) and (C) (D) (A), (C) and (D) causing microbes. B. Leavening is swelling of dough during 3. Lactic acid bacteria improve the nutritional bread making. quality of curd by increasing the content of (A) Vitamin B₂ (B) Vitamin B₆ C. The dough that is used for making (C) Vitamin B₁₂ (D) Vitamin D foods such as dosa and idli is fermented by yeast. 4. Inoculum is added to milk during curd D. Microbes are also used to ferment fish, formation in order to soybean, and bamboo shoots to make (A) Increase the vitamin B₂ content food. (B) Coagulate the milk proteins (A) A-T; B-T; C-F; D-T (C) Improve the flavor of milk (B) A-T; B-T; C-F; D-F (D) Partially digest the milk fat (C) A-T; B-F; C-T; D-F (D) A-T; B-F; C-T; D-T Complete the following analogy: 5. 11. Ethanol is commercially produced through Swiss cheese: Propionibacterium shermanii a particular species of : Bread : (A) Penicillium (A) Candida albicans (B) Saccharomyces (B) Lactic acid bacteria (C) Streptococcus (C) Clostridium butylicum

(D) Saccharomyces cerevisiae.

(D) Actinomycetes

12.	The large vessels for growing microbes on an industrial scale are called (A) Tanks (B) Digesters (C) Fermenters (D) All of the above		(A) A-T; B-T; C-F; D-F (B) A-F; B-T; C-T; D-T (C) A-F; B-T; C-F; D-F (D) A-T; B-F; C-T; D-T
13.	After fermentation, distillation is not necessary for the production of (A) Wine and beer (B) Whisky and brandy (C) Beer and rum (D). Wine and rum	21.	The chemicals that are prolife with reference to human beings. (A) Are regarded as one of the most significant discovery of the twentieth century. (B) Have greatly improved our capacity to treat deadly disease.
14.	The most common substrate used in distilleries for the production of ethanol is (A) Zea maize (B) Molasses (C) Soyabean (D) Fruits		(C) Can kill or retard the growth of disease-causing microbes. (D) All of the above.
15.	The chemical substances produced by some microbes that can kill or retard the growth of other microbes are called (A) Antibiotics (B) Biocides (C) Bioactive molecules (D) Prebiotics	22.	All of the following are characteristics of a good antibiotic except (A) Broad spectrum (B) Immediate reaction (C) Destroy microflora of alimentary canal or heart (D) No side effect
16.	The scientist credited for showing the role of penicillin as an antibiotic is/are (A) Louis Pasteur (B) Workman (C) Alexander Fleming (D) Chain and Florey	23.	Microbes are also used in the commercial production of certain organic acids. Butyric acid is produced by (A), and lactic acid is produced by (B). (A) A-Clostridium butylicum; B-Lactobacillus (B) A-Lactobacillus, B-Aspergillus
17.	Chain and Florey were awarded the Noble Prize in 1945 for the extraction of (A) Streptomycin (B) Penicillin (C) Statins (D) Streptokinase	24.	(C) A-Clostridium butylicum; B-Aspergillus (D) A-Bacillus; B-Aspergillus Citric acid is obtained through the fermentation carried out by
18.	Penicillin was accidently discovered when Alexander Fleming was working with the culture of (A) Penicillium notatum		(A) Saccharomyces(B) Aspergillus niger(C) Rhizopus(D) Clostridium
	(B) Streptococcus bacteria (C) Staphylococcus bacteria (D) Streptobacillus bacteria	25.	Select the incorrectly matched pair. (A) Statin-Yeast (B) Streptokinase - Modified by genetic engineering
19.	Antibiotics have greatly improved our capacity to treat the following deadly disease except (A) plague (B) diphtheria		(C) Cyclosporin A - Fibrinolytic effect (D) Lipases - Removes oily stains from the laundry
20.	(C) kali khansi (D) cancer Read the following statements with respect to antibiotics, and state true (T) or false (F).	26.	Tissues plasminogen activator (TPA) is obtained from (A) Trichoderma (B) Streptococcus (C) Monascus (D) Streptomyces
	A. Antibiotics means "prolife" in the context of disease-causing organisms. B. Waksman discovered Streptomycin and	27.	Cyclosporin A is obtained through fermentation activity of a fungus.

coined the term antibiotics.

from Actinomycetes.

established by Chain and Florey.

C. Therapeutic value of penicillin was

D. Most of the antibiotics are obtained

(A) It has antifungal activity.

antifungal property.

(B) It has immunosuppressive but no

(C) It is a blood cholesterol lowering agent.

(D) It is used as blood clot busters.

- 28. Monascus purpureus is a source of
 - (A) Blood clot removing agent
 - (B) Blood purifying agent
 - (C) Blood cholesterol lowering agent
 - (D) Immunosuppressive agent
- **29.** Match column I with column II, and choose the correct answer.

Column I

- a. Lipases
- b. Pectinases
- c. Streptokinase
- d. Statins

Column II

- (i) Clarifying bottle juices
- (ii) Clot buster
- (iii) Detergent formulation
- (iv) Blood cholesterol lowering agent
- (A) a (iii); b (i); c (ii); d (iv)
- (B) a (iii); b (iv); c (ii); d (i)
- (C) a (iv); b (ii); c (i); d (iii)
- (D) a (i); b (iii); c (ii); d (iv)
- **30.** A patient brought to a hospital with myocardial infarction is immediately given
 - (A) Penicillin
- (B) Statins
- (C) Streptokinase
- (D) Cyclosporin A
- 31. Blood cholesterol lowering agent
 - (A) Is a degraded cholesterol
 - (B) Does not allow synthesis of enzyme for cholesterol synthesis
 - (C) Competitive inhibits the enzyme for cholesterol synthesis
 - (D) Is commercially obtained from the bacteria Monascuas.
- **32.** help in clarifying fruit juices.
 - (A) Lipases and proteases
 - (B) Pectinases and proteases
 - (C) Amylases and lipases
 - (D) Gluconic acid and lactic acid
- **33.** The primary treatment of sewage involves
 - (A) Decomposition
 - (B) Microbial activity
 - (C) Sequential filtration and sedimentation
 - (D) Fermentation
- **34.** Pick the incorrect match regarding sewage.
 - (A) High BOD of water

 More potential of water
 - (B) Activated sludge Secondary treatment
 - (C) Anaerobic sludge Aerobic flocs
 - (D) Physicochemical process
 - Tertiary treatment

- **35.** The sewage mater is treated till the BOD is reduced. Identify the treatment process
 - (A) Primary treatment
 - (B) Secondary treatment
 - (C) Tertiary treatment
 - (D) Chemical treatment

(SECTION-B)

- **36.** Supply of oxygen to the biogas plant will have
 - (A) Positive effect
 - (B) No effect
 - (C) Negative effect
 - (D) First positive and then negative effect
- **37.** The rumen of cattle harbors
 - (A) Methanogens
 - (B) Cyanobacteria
 - (C) Methane-degrading bacteria
 - (D) Cellulogens
- **38.** Read the following statement with respect to biogas production, and state true (T) and false (F).
 - A. The type of the gas produced depends upon the microbes and the organic substrate they utilize.
 - B. Certain bacteria that grow aerobically on cellulose material produce large amount of methane along with CO2 and H2.
 - C. Methanobacterium is a common methanogen.
 - D. Methanogens are commonly found in the anaerobic sludge during sewage treatment.
 - (A) A-T; B-F; C-T; D-T
 - (B) A-F; B-T; C-T; D-T
 - (C) A-T; B-F; C-T; D-T
 - (D) A-F; B-F; C-T; D-T
- **39.** A_____is placed over the slurry in biogas plant.
 - (A) Gas holder
 - (B) Floating cover
 - (C) Digester
 - (D) Gas filter
- **40.** The main component of the raw material used for biogas production is
 - (A) Vegetable waste
 - (B) Cow dung
 - (C) Agriculture waste
 - (D) Industrial waste
- **41.** The residual left after methane production from cattle dung is
 - (A) Burnt
 - (B) Buried in landfills
 - (C) Used as manure
 - (D) Used in civil construction

- **42.** Go through following matches with respect to biocontrol agents, and select the correct option.
 - A. Ladybird beetle-Aphids
 - B. Dragonflies-Mosquitoes
 - C. Bacillus thuringiensis-Butterflies/caterpillars
 - D. Trichoderma-Plant pathogens
 - (A) Only (A) and (B) are correct.
 - (B) Only (C) is correct.
 - (C) Only (D) is correct.
 - (D) All (A), (B) (C), and (D) are correct.
- **43.** The nuclear polyhedro viruses (NPV) are
 - (A) Not baculoviruses.
 - (B) Effective against rodents.
 - (C) Broad-spectrum insecticides.
 - (D) Effective against insects and other arthropods.
- **44.** Which of the following organisms is not used during biocontrol method?
 - (A) Bacillus thuringiensis
 - (B) Trichoderma
 - (C) Ladybird beetle
 - (D) Monascus purpureus
- 45. Which of the following is an example of carrying out biological control of pest or disease-causing microbes?
 - (A) Bt spores to increase sugarcane yield.
 - (B) Nuclear polyhedro virus against mammals, birds, and fish.
 - (C) Ladybird beetle against mosquito.
 - (D) Trichoderma species against certain plant pathogens.
- **46.** Microbes used to control pests under IPM include
 - (A) Dragonfly
- (B) Ladybird
- (C) Trichoderma
- (D) Cactoblastis

- 47. Consider the following four statements (A-D) related to organic farming, and select the correct option stating which ones are true (T) and false (F).
 - A. The pests are not eradicated but instead are kept at manageable levels by a simple system of checks and balances with in a living and vibrant ecosystem.
 - B. The more variety a landscape has, the less sustainable it is.
 - C. No need to use chemical insecticides and pesticides.
 - D. Uses chemical fertilizers containing organic com- pounds only.
 - A B C D
 - (A) A-T; B-F; C-T; D-F
 - (B) A-T; B-F; C-T; D-T
 - (C) A-F; B-T; C-T; D-F
 - (D) A-F; B-T; C-F; D-T
- **48.** The organisms that are used to enrich the nutrient quality of the soil are called
 - (A) VAM
 - (B) Methanogensval
 - (C) Biofertilizers
 - (D) Biocontrol agents
- **49.** Which of the following organisms can increase the nitrogen content of the soil?
 - (A) Trichoderma and Anabaena
 - (B) yeast and Penicillium
 - (C) Glomus and Nostoc
 - (D) Azospirillum and Azotobacter
- **50.** Which of the following is not a belief of an organic farmer?
 - (A) Complete eradication of pests
 - (B) Biodiversity furthers health
 - (C) Integrated pest management
 - (D) Less dependence on chemicals