



BIOLOGY

BOOKS - CENGAGE BIOLOGY (HINGLISH)

MICROBES IN HUMAN WELFARE

Exercises

1. Partially degraded concentrate of milk fat and casein is called

- A. Sour cream
- B. Yoghurt
- C. Cheese
- D. Bread

Answer: C



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2. Indian cured is prepared by inoculating cream and skimmed milk with

- A. *Lactobacillus acidophilus*
- B. *Leuconostoc cremoris*
- C. *Lactobacillus bulgaricus*
- D. *Streptococcus lactis*

Answer: A

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3. the nutrient medium for beer is

- A. Barley malt
- B. Fermented rice
- C. Cashew-apple

D. Potato

Answer: A



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4. Mark the incorrect option (with respect to distilled alcoholic beverages):

A. Wine

B. Brandy

C. Rum

D. gin

Answer: A



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5. which of the following product is not obtained from fermented soya sauce ?

A. Tempeh

B. tofu

C. sufu

D. Dosa

Answer: D



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6. select the odd one with respect to the sourose of antibiotics :

A. Bacteria

B. Lichen

C. fungi

D. Seeded plants

Answer: D



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7. which of the following enzymes is employed in the conversion of corn starch into fructose - rich corn syrup ?

- A. Amylases
- B. Glucoamylases
- C. Glucoisomerases
- D. All are correct

Answer: D



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8. Sratins are competitive inhibitors of

A. Streptokinase

B. HMG COA reductase

C. Pectinase

D. Cellulase

Answer: B



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9. which of the following organic acid is used as a source of calcium for infants , cows. And lactating mothers?

A. Gluconic acid

B. Lactic acid

C. Citric acid

D. Acetic acid

Answer: A

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10. organic acid used in pharmaceuticals , coloring agents , and plastic industries is

- A. Acetic acid
- B. Citric acid
- C. Lactic acid
- D. Glucose acid

Answer: A

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11. the first mycoherbicide of the world was obtained from

- A. *Trichoderma harzianum*
- B. *Phythora palmivora*

C. Calctblastis cactorm

D. Pythium debaiynum

Answer: B



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12. the concept of sustainble agriculture lies in

A. Minimizing biopesticides

B. A greater dependance on new crops

C. Least use of biofertilizers

D. using spores of bacillus thuringiensis for pest control

Answer: D



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13. which of the following had been used for controlling sugarcane leaf hopper ?

- A. predator bug
- B. Bollworm
- C. Predator mantis
- D. lady lug

Answer: A



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14. find the odd one out (with respect to bioherbicide) :

- A. *Cactoblastis cactorum*
- B. *Heianthus anus*
- C. *Phytophthora palmivora*
- D. *Cochliomyia*

Answer: D



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15. sustainable agriculture does not include

- A. Eco-friendly cropping
- B. green revolution
- C. IPM
- D. Biological control

Answer: B



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16. which of the following is included in biopesticide ?

- A. Viruses and bacteria , and fungi only

- B. Viruses , bacteria , and fungi only
- C. Viruses , bacteria , fungi , protozoa , and mites
- D. Viruses , barcteria , fungi , and protozoa only

Answer: C



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17. Biofertilizers include

- A. Blue green alagae ,Rhizobium , other nitrogen - fixing bacteria , and mycorrhiza
- B. blue green alage , trichoderma , rhizobium , and other nitrogen - fixing bacteria
- C. Rhizbium , other nitrogen -fixing bacteria ,NPV, and mycorrhiza
- D. Blue green alage Rhizbium ,Bt cotton , and mycorrhiza

Answer: A



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18. Devine and collego are two agricultural substances that are used as

- A. Biofertilizers
- B. Natural insecticides
- C. Insect hormones
- D. Bioherbicides

Answer: D



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19. ganga action plan for controlling pollution in ganga started in

- A. 1985
- B. 1981
- C. 1987

D. 1989

Answer: A



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20. which of the following statements is incorrect with respect to pectinases ?

- A. they are used in clearing of fruit juices
- B. they are used in chill-proofing beer and whisky
- C. they are obtained from *Byssoclamys fulva*
- D. they are used in retting of fibers

Answer: B



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21. the presence of E. coli in water indicates

- A. water is clear
- B. water is fully polluted
- C. Inorganic pollution
- D. Fecal pollution

Answer: D



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22. in which stage of sewage treatment is desallination and chlorination of water done ?

- A. Primary treatment
- B. secondary treatment
- C. Tertiary treatment
- D. Both (1) and (2)

Answer: C



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23. Eutrophication in water bodies leads to High DO

- A. high DO
- B. Low BOD
- C. Low DO
- D. Optimum dissolved oxygen

Answer: C



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24. which of the following is not used in the treatment of polluted water

?

- A. Activated carbon
- B. Trickling filter method
- C. cyclone collector
- D. Activated sludge method

Answer: C

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25. the greater BOD of waste water

- A. Increases oxygen content of water
- B. Decreases oxygen content of water
- C. Relates the decreases of temperature of water
- D. all of these

Answer: B

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26. Microbes that cannot be cultured in cell - free extracts are

A. Bacteria fungi

B. fungi

C. Viruses

D. Algae

Answer: C



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27. Most of the antibiotics are obtained from

A. Actinomycetes

B. Eubacteria

C. Ray fungi

D. Both (1) and (2)

Answer: D



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28. LAB stands for

- A. Lactic acid bacteria
- B. Lactobacillus acidophilus bacteria
- C. Lactose acetaldehyde bacteria
- D. Laboratory

Answer: A



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29. which of the following is responsible for yoghurt formation ?

(a) Streptococcus thermophilus

(b) Lactobacillus acidophilus

(c) Lactobacillus bulgaricus

(D)Streptococcus cremoris

A. (a),(b) ,(c)

B. (a),(d),(c)

C. (a),(C)

D. (a),(d)

Answer: C



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30. the fermented food of soybean is

A. Tempeh

B. tofu

C. Sufu

D. All of these

Answer: D



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31. which of the following is not a symbiotic nitrogen fixing bacterium ?

A. Clostridium

B. Rhizobium leguminsarum

C. Frankia

D. Mycoterium

Answer: A



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32. Biogas contains

- A. 30 – 40 % methane
- B. 50 – 70 % CO_2
- C. 50 – 70 % methane
- D. 20 % methane

Answer: C



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33. citric acid is obtained from all, except

- A. *Aspergillus niger*
- B. *Mucor*
- C. Yeast
- D. *Mortierella*

Answer: D



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34. Antibiotic obtained from lichens is

- A. Neomycin
- B. Usnic acid
- C. Polymixin
- D. Viridin

Answer: B



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35. which bacteria is used in Bioremediation process ?

- A. Rhizobium sp.

B. *Pseudomonas pudita*

C. *Bacillus licheniformis*

D. Streptococci

Answer: B



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36. CDRI is located in

A. Lucknow

B. Kanpur

C. Delhi

D. Karnal

Answer: A



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37. Viridin antibiotic is effective against

- A. Bacteria
- B. fungi
- C. Gram positive bacteria
- D. Gram negative bacteria

Answer: B



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38. which fungal extract was extensively used in treating wounded American soldiers in World war II?

- A. Streptomycin
- B. Penicillin
- C. Aflatoxin
- D. Gluconic acid

Answer: B



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39. Dosa and dilli are the fermented preparations of rice and black gram fermentation is done with

- A. Leuconostoc
- B. Streptococcus
- C. Saccharomyces
- D. More than one option is correct

Answer: D



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40. Wine Yeast is

A. *Saccharomyces effipsoidens*

B. *S. sake*

C. *S. Pireformis*

D. *S. Pireformis*

Answer: A

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41. Amylases are employed for all, except

A. Softening of bread

B. Clearing of turgidity in juices

C. Preparation of cheese

D. Desizing of textile fibers

Answer: C

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42. the derivatives of gluconic acid are used as a source of

- A. Calcium
- B. Iron
- C. Glucose
- D. Fat

Answer: A



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43. the first step in biogas production is carried out with the help of

- A. Obligate aerobes
- B. Decomposers
- C. Methanogens

D. Detritivores

Answer: B



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44. Rotenone ,a natural insecticide ,is obtained from

A. Azadirachta indica

B. Derris sp.

C. Bacillus thuringiensis

D. Phytophthora palmivora

Answer: B



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45. Fermented baverage with maximum alcohol content is

A. Beer

B. Brandy

C. Whisky

D. Gin

Answer: B



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46. Rennin used in cheese industry is

A. Antibipotic

B. Enzyme

C. Alkaloid

D. Inhibitor

Answer: B



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47. A compound which is produced by an organism and inhibits the growth of other organisms is called

- A. Antibody
- B. Antigen
- C. Anti-allergic
- D. Antibiotic

Answer: D



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48. Genetically engineered bacteria have been used in the commercial production of

- A. thyroxine
- B. Testosterone

C. Human insulin

D. Melatonin

Answer: C



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49. for biogas production , besides dung , which of the following is used as manure ?

A. Eichhorina

B. Parthenium

C. Glycine

D. Arachis

Answer: A



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50. the bioconcentration of DDT in the body fat of indians is

A. 18-36ppm

B. 5-10ppm

C. 13-31ppm

D. 2-5ppm

Answer: C



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51. DDT is a /an

A. Organochlorine

B. Organophosphate

C. Carbamate

D. pyrethroid

Answer: A



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52. Biopesticides include

- A. Only Bioinsecticide
- B. Only bioherbicide
- C. Bioinsecticide and bioherbicide
- D. Bioherbicide ,bioinsecticide ,and biofertilizers

Answer: C



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53. which of the following pairs serve as biofertilizers?

- A. Albugo and lichen

B. Frankia and Nostoc

C. Pseudomonas and E.Coli

D. Spirogyra and mucor

Answer: B



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54. the most famous pesticide of the world is

A. Methyl isocyanate

B. DDT

C. Malathion

D. BHC

Answer: B



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55. which of the following plant is used as green manure ?

- A. Crotalaria juncea
- B. Vigna sinensis
- C. Barseem
- D. All the above

Answer: D



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56. which of the following statement is incorrect about DDT?

- A. DDT is a pesticide , which is an organchlorine .
- B. It is lipophilic and non-Biodegradable .
- C. Milk is a good carrier of DDT

D. DDT does not undergo bioconcentration when it enters in food chain .

Answer: D



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57. the first inorganic pesticide to be used commercially was

- A. Bordeaux mixture
- B. Burgandy mixture
- C. DDT
- D. 2-4D

Answer: A



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58. VAM is important for

- A. Breaking of dormancy
- B. Phosphate nutrition
- C. Water uptake
- D. Retarding flowering

Answer: B



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59. Besides dung, the weed that can be used in biogas production is

- A. Hydrilla
- B. Solanum nigrum
- C. Eichhorniacrassipes
- D. parthenium hysterophorous

Answer: B



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60. which one is a neem product used as insect repellent ?

A. Azadirachtin

B. Rotenone

C. Parathione

D. Endrin

Answer: A



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61. the enzyme that converts glucose into alcohol is

A. Lipase

B. Zymase

C. Diastase

D. Invertase

Answer: B



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62. which one of the following statements is correct ?

A. Cyanobacteria such as Anabaena and Nostoc are important mobilizers of phosphates and potassium for plant nutrition in soil

B. At present , it is not possible to grow maize without chemical fertilizers.

C. Extensive use of chemical fertilizers may lead to eutrophication of nearby water bodies .

D. both Azotobacter and rhizbium fix atmospheric nitrogen in the nodules of plants .

Answer: C

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63. the sntibiotic Terramycin is obtained from

- A. Streptomyces griseus
- B. Streptomyces ramosus
- C. Streptomyces venezuelae
- D. clostridium botulinum

Answer: B

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64. Penicillin is obtained from

- A. *Aspergillus fumigatus*
- B. *Penicillium chrysogenum*
- C. *Penicillium griseofulvum*
- D. *Streptomyces grises*

Answer: B



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65. Antibiotic flavicin is obtained from

- A. *Aspergillus fumigatus*
- B. *Aspergillus flavus*
- C. *Streptomyces gresus*
- D. *Streptomyces fradiae*

Answer: B



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66. Cyclosporin - an immunosuppressive drug - is produced by

- A. *Aspergillus niger*
- B. *Monascus purpureus*
- C. *Penicillium notatum*
- D. *Trichoderma polysporum*

Answer: D



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67. a sewage treatment in which a part of decomposer bacteria present in the is recycled into the starting of the process is called

- A. Cyclic treatment
- B. Activated sludge treatment
- C. Primary treatment
- D. Tertiary treatment

Answer: B

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68. which one of the following is used as biological insecticide ?

- A. Tiger beetle
- B. Caterpillar
- C. Silk moth
- D. Majra poka

Answer: A

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69. Biogas production is carried out by

- A. Thermoacidophiles
- B. Mathanogens
- C. Halophiles
- D. Luminants

Answer: B



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70. Biogas produced by the fermentation of manure , sewage , cattle dung , etc., predominantly comprises

- A. Methane,nitrogen ,and hydrogen
- B. Methane and carbon dioxide
- C. Methane and carbon monoxide

D. Methane and nitric oxide

Answer: B



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71. the term" Antibiotic " was coined by

A. Alexander fleming

B. S. Waksman

C. Louis pasteur

D. Edward jenner

Answer: B



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72. which one of following is not true about antibiotics?

- A. the first antibiotic was discovered by Alexander Fleming .
- B. the term"antibiotic was coined by Sgt Waksman in 1942.
- C. Some persons can be allergic to a particular antibiotic .
- D. Each antibiotic is effectiive only against one particular kind of germ .

Answer: D

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73. Name the block speses A,B,C and D given in the following table

Types of Microbes	Scientific Name	Commercial Product
Bacterium	A	Clot buster enzyme
B	<i>Aspergillus niger</i>	Citric acid
Fungus	<i>Trichoderma polysporum</i>	C
Bacterium	D	Butyric add

A. A-Streptococcus, B-Fungus, C-Cyelosporin-A,D-Clostridium butylicum.

B. A-Clostridium buytylicum, B-Streptococcus, C-Fungus, D-Cyclosporin-

A

C. A-Cyclosporin-A, B-Clostridium butylicum, C-Streptococcus, D-Fungus

D. A-Fungus, B-Cyclosporin-A, C-Clostridium Butylicum, D-Streptococcus

Answer: A



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74. name the blank spaces A, B C, and D from the a table given below:

	Type of Microbe	Scientific Name	Product	Medical Application
(i)	Fungus	A	Cyclosporin	B
(ii)	C	<i>Monascus purpurascens</i>	Statin	D

A. A-Trichoderma polysporum, B-Organ transplant patients, C-Yeast

(Fungus), D-Lowering of blood cholesterol

B. A-Lowering of blood cholesterol, B -Trichoderma polysporum, C-

Organ transplant patients, D-Yeast (Fungus)

C. A-Yeast (Fungus), B-Lowering of blood cholesterol, C-Trichoderma

polysporum, D-Oral transplant patients

D. A-Organic transplant patients, B-Yeast (Fungus), C-Lowering of blood cholesterol, D-Trichoderma polyspora

Answer: A



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75. which of the following statement is correct ?

- A. Single cell protein is rich in high quality proteins but poor in fat
- B. BOD is the amount of oxygen that would be consumed if all the inorganic matter in one litre of water were oxidised by bacteria .
- C. Trichoema sp are free living fungi that are effective biocontrol agents of several pathogens.
- D. Bacillus thuringiensis are pathogens that attack insects and other arthropods .
- E. Bacillus thuringiensis is first used biopesticide.
- F. Lactose enzyme is used in alcoholic fermentation .
- G. Mycorrhiza is a symbiotic association between fungi e.g. Glomus and vascular plant .

A. B,C,F,G

B. A,D,F

C. A,C,D,E,G

D. B,F

Answer: C



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76. which one (s) is / are correct about cyclosporin A ?

A. It is produced by the fungus trichdema polysporium

B. It is used as an immuno suppressive agent during organ transplatation

C. It is produced by a type of yeast ,monascus purpureus

D. Both (1) and (2)

Answer: D



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77. match the following list of microbes and their importance .

Column-I	Column-II
A. <i>Saccharomyces cerevisiae</i>	(i) Production of immuno suppressive agent
B. <i>Monascus purpureus</i>	(ii) Ripening of Swiss cheese
C. <i>Trichoderma polysporum</i>	(iii) Commercial production of ethanol
D. <i>Propionibacterium shamanii</i>	(iv) Production of blood-cholesterol lowering agents

A. A-(iv),B-(ii) ,C-(i) ,d-(iii)

B. A-(iii) ,B-(i) ,C-(iv),d-(ii)

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

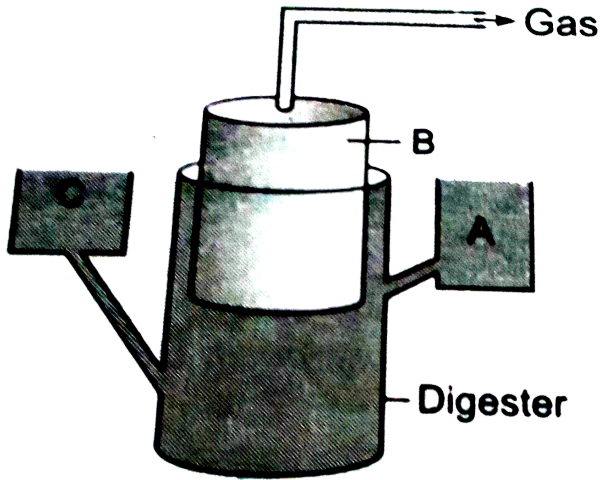
D. A-(iv),B-(iii),C-(ii),D-(i)

Answer: C



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78. the below digram shows a typical biogas plant . Which of the following four option , products labelled As A,B and C are Correctly identified



- A. A- Sludge , B- Methane,Oxygen ,C-Dung ,water
- B. A-Sludge, B-Methane ,CarbonDioxide ,C-Dung , water
- C. A- Sludge ,B- Ethylene ,Carbon dioxide , C-Dung water
- D. A- Sludge ,B-Methane ,Carbon dioxide , C- Sewage

Answer: A

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79. Assertion : After 24h. Toddy becomes unpalatable .

Reason : Toddy left for a few hours undergoes fermentation .

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).

C. If assertion is true but Reason is false , then false , then mark(3).

D. If both assertion is true Reason are false , then Mark (4).

Answer: A



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80. Assertion : Newer Antibiotics are required to be produced Regularly .

Reason : Pathogens often develop resistance to existing antibiotics.

- A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .
- B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).
- C. If assertion is true but Reason is false , then false , then mark(3).
- D. If both assertion is true Reason are false , then Mark (4).

Answer: A



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81. Assertion : Cyclosporin A is antifungal and immunosuppressive medicine

Reason : It stimulates the activation of T - cells and Prevents rejections.

- A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).

C. If assertion is true but Reason is false , then false , then mark(3).

D. If both assertion is true Reason are false , then Mark (4).

Answer: C

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82. Assertion : Barley ,Sorghum , and millet are smoother crops.

Reason : they factor the growth of some common weeds.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).

C. If assertion is true but Reason is false , then false , then mark(3).

D. If both assertion is true Reason are false , then Mark (4).

Answer: C

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83. Assertion : Agricultural output increased several times after the introduction of DDT .

Reason : DDT was the first insecticide used on a wide scale .

- A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .
- B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).
- C. If assertion is true but Reason is false , then false , then mark(3).
- D. If both assertion is true Reason are false , then Mark (4).

Answer: A



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84. Assertion : the disadvantages of chemical pesticides can be overcome by the use of biopesticides.

Reason: Biopesticides are the harmless pesticides of biological origin which are used to control weeds and pests without causing any significant damage .

- A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .
- B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).
- C. If assertion is true but Reason is false , then false , then mark(3).
- D. If both assertion is true Reason are false , then Mark (4).

Answer: A



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1. Assertion : Curd is more nutritious than milk .

Reason : LAB present in curd checks the growth of disease- causing microbes.

- A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion , then mark (1) .
- B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion , then mark (2).
- C. If assertion is true but Reason is false , then false , then mark(3).
- D. If both assertion is true Reason are false , then Mark (4).

Answer: B



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1. Cry 1 endotoxins obtained from *Bacillus thuringiensis* are effective against

- A. Nematodes
- B. Boll worms
- C. Mosquitoes
- D. Flies

Answer: B



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2. Human insulin is being commercially produced from a transgenic species of:

- A. *Rhizobium*
- B. *Saccharomyces*
- C. *Escherichia*

D. Mycobacterium

Answer: C



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3. Trichoderma harzianum has proved a useful microorganism for :

- A. Gene transfer in higher plants
- B. Biological control of soil-borne plant pathogens
- C. Bioremediation of contaminated soils
- D. Reclamation of wastelands

Answer: C



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4. DDT residues are rapidly passed through food chain causing biomagnification because DDT is

- A. Water soluble
- B. Lipo soluble
- C. Moderately toxic
- D. non-Toxic to aquatic animals

Answer: B



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5. which one of the following is not used in organic farming

- A. Glomus
- B. Earthworm
- C. Oscillatoria
- D. Snail

Answer: D



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6. the common nitrogen - fixer in paddy fields is

- A. Rhizobium
- B. Azospirillum
- C. Oscillatoria
- D. Frankia

Answer: B



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7. A common biocontrol agent for the control of plant diseases is

- A. Baculovirus

B. *Bacillus thuringiensis*

C. *Glomus*

D. *Trichoderma*

Answer: D



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8. when domestic sewage mixes with water ,

A. small animals such as rats will die after drinking river water

B. the increased micorobial activity relases micronutrients such as
iron

C. the increased microbial actvity uses up dissolved oxygen

D. the river water is still suitable for drinking as impuphorus are only
about 0.1%

Answer: C



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9. which one of the following helps in absorption of phosphorus from soil by plants?

A. Anabaena

B. Glomus

C. Rhizobium, other nitrogen-fixing bacteria, N₂ fixers, and mycorrhiza

D. Nostoc

Answer: B



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10. which one of the following is not a biofertilizer ?

A. Mycorrhiza

B. Azobacterium

C. Rhizobium

D. Nostoc

Answer: B



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11. Which one of the following is an example of carrying out biological control of pests/diseases using microbes ?

A. uclepolyhedrovirus against white rust in Brassica .

B. Bt- cotton to increase cooton yield

C. Lady bird beetle aginst aphids in mustard .

D. Trichodroma Sp. Against certain plant pathogens .

Answer: D



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12. Maximum nutritional diversity is found in the rice fields is

- A. Frankia
- B. Tolypothrix
- C. Fungi
- D. Animalia

Answer: A



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13. A nitrogen fixing microbe associated with Azolla in rice-fields is:-

- A. Frankia
- B. Tolypothrix
- C. Spiruline
- D. Anabaene

Answer: D



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14. Yeast is used in the production of:-

- A. Bread and beer
- B. Cheese and butter
- C. Citric acid and lactic acid
- D. Lpase and pectinase

Answer: A



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15. Which one of the following helps in absorption of phosphorus from soil by plants

or

Which one of the following microbes forms symbiotic association with plants and helps them in their nutrition

- A. Glomus
- B. Trichoderma
- C. Azotobacter
- D. Aspergillus

Answer: A



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16. A patient brought to a hospital with myocardial infarction is normally immediately given

- A. Cyclosporin -A
- B. Statins
- C. Penicillin

D. Streptokinase

Answer: D



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17. *Monascus purpureus* is a yeast used commercially in the production of

A. Citric acid

B. Blood cholesterol lowering statins

C. Ethanol

D. Streptokinase for removing clots from the blood vessels

Answer: B



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18. Green revolution in India occurred during

A. 1960's

B. 1970's

C. 1980's

D. 1950's

Answer: A



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19. In gobar gas, the maximum amount is that of

Or

Biogas produced through anaerobic fermentation of organic material is primarily

A. Butane

B. Methane

C. propane

D. Carbon dioxide

Answer: B



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20. Domestic sewage of large cities

- A. Has a high BOD as it contains both aerobic and anaerobic bacteria
- B. Is processed treatment and then anaerobic bacteria in the secondary treatment in sewage treatment plants (STPs)
- C. when treated in STPs does not really require the aeration step as the sewage contains adequate oxygen .
- D. Has very high amounts of suspended solids and dissolved salts

Answer: D



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21. During sewage treatment, biogases are produced which includes :

- A. Methane , oxygen , and hydrogen sulfide
- B. Hydrogen sulfide, methane , and sulfur dioxide
- C. Hydrogen sulfide , nitrogen , and methane
- D. Methane , hydrogen sulfide , and carbon dioxide

Answer: C

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22. A good producer of citric acid is :

- A. Pseudomonas
- B. Clostridium
- C. Saccharomyces
- D. Aspergillus

Answer: D

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23. What gases are produced in anaerobic sludge digesters

- A. Methane and CO_2
- B. Methane, Hydrogen sulphide and O_2
- C. Methane, Hydrogen sulphide and CO_2
- D. Hydrogen sulphide and CO_2

Answer: C



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24. match the following list of microbes and their importance :

(1)	<i>Saccharomyces cerevisiae</i>	(i)	Production of immunosuppressive agents
(2)	<i>Monascus purpureus</i>	(ii)	Ripening of Swiss cheese
(3)	<i>Trichoderma polysporum</i>	(iii)	Commercial production of ethanol
(4)	<i>Propionibacterium sharmanii</i>	(iv)	Production of blood cholesterol lowering agents

- A. *a b c d*
iii I iv ii
- B. *a b c d*
iii iv I ii
- C. *a b c d*
iv iii ii i
- D. *a b c d*
iv ii I iii

Answer: B

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25. which of the following is wrongly matched in the given table ?

A.

	microbe	product	Applications
(1)	<i>Trichoderma polysporum</i>	CyclosporinA	immunosuppressi

B.

	microbe	product	Applications
(2)	<i>Monascus purpureus</i>	Statins	Lowering of blood cholesterol

C.

	microbe	product	Applications
(3)	<i>Streptococcus</i>	streptokinase	removal of clot from blood

	microbe	product	Applications
D.	(3) <i>Clostridium butylicum</i>	Lipase	removal of oil stains

Answer: D



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26. Match Column-I with Column -II and select the correct option using the codes given below

Column-I		Column-II	
(a)	Citric acid	(i)	Trichoderma
(b)	Cyclosporin A	(ii)	<i>Clostridium</i>
(c)	Statins	(iii)	<i>Aspergillus</i>
(d)	Butyric acid	(iv)	<i>Monascus</i>

- A. *a b c d*
I Iv ii iii
- B. *a b c d*
iii iv I ii
- C. *a b c d*
iii I ii iv
- D. *a b c d*
iii I iv ii

Answer: D



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