



BIOLOGY

BOOKS - CENGAGE BIOLOGY (ENGLISH)

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 curd 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 source 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. Statins 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. The 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. Biofertilisers 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. 1986
- 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

- 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

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)Streptoocous 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 a symbiotic nitrogen fixer

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 effipsoideus*

B. *S. sake*

C. *S. Pireformis*

D. *S. cerevisiae*

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 beverage 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. Antibiotic
- B. Enzyme
- C. Alkaloid
- D. Inhibitor

Answer: B

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47. A compound produced by an organism which inhibits the growth of another organism is

- 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. Eichhornia crassipes
- 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 antibiotic Terramycin is obtained from

- A. Streptomyces griseus
- B. Streptomyces rimosus
- 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 obtain-ed from

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

Answer: B



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66. Cyclosporine-A: an immunosuppressive agent is produced by the fungus

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

Answer: D



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

as

- 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 the 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 effective only against one particular kind of germ .

Answer: D



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73. Name the blank spaces 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 acid

A. A-Streptococcus, B-Fungus, C-Cyclosporin-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 polyspora, B-Organ transplant patients, C-Yeast

(Fungus), D-Lowering of blood cholesterol

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

Organ transplant patients, D-Yeast (Fungus)

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

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 important

(A) <i>Sacharomyces cerevisiae</i>	(i) Production of immunosuppressive agents
(B) <i>Monascus purpureus</i>	(ii) Ripening of Swiss cheese
(C) <i>Trichoderma polysporum</i>	(iii) Commercial production of ethanol
(D) <i>Propionibacterium sharmanii</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)

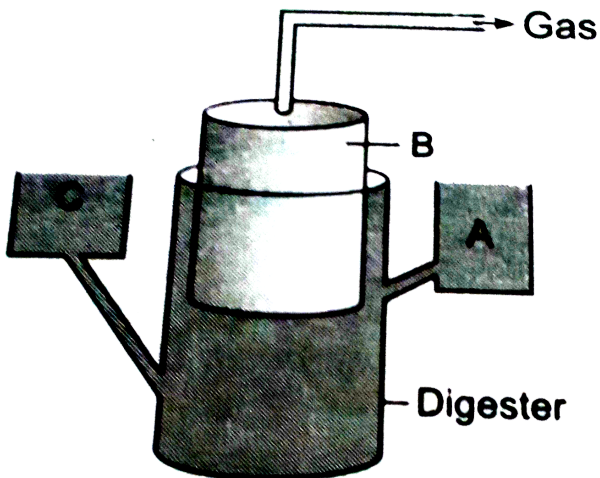
C. A-(iii),B-(iv),C-(i) ,D-(ii)

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 : Agriculture production increased several times after introudction of DDT .

Reason : DDT was 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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Assertion Reasoning Questions

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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Archives

1. Cry 1 endotoxins obtins obtained from *Bacillus thuringiensis* are effictive 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 harizianum* has proved to be 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 river 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 absorp- tion of phosphorus from soil by plants

- A. Anebaene
- B. Gluomus
- C. Rhizbium , other nitrogen -fixing bacteria ,NPv, and mycorrhiza

D. Nostoc

Answer: B



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10. Which one of the following is not a biofertilizer

A. Mycorrhiza

B. Agrobacterium

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 microbes forms symbiotic association with plants and helps them in their nutrition

A. Glomus

B. Trichoderma

C. Azotobacter

D. Asper gillus

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. The domestic sewage in 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 include

- 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. Saccharmyces
- 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 important

(A) <i>Sacharomyces cerevisiae</i>	(i) Production of immunosuppressive agents
(B) <i>Monascus purpureus</i>	(ii) Ripening of Swiss cheese
(C) <i>Trichoderma polysporum</i>	(iii) Commercial production of ethanol
(D) <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	immunosuppress

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

D.

	microbe	product	Applications
(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
(a) Citric acid
(b) Cyclosporin A
(c) Statins
(d) Butyric acid

Column-II
(i) Trichoderma
(ii) Clostridium
(iii) Aspergillus
(iv) Monascus

- 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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