

$$5 \times 1 = 5$$

- Cyclosporin – A is an immunosuppressive drug produced from \_\_\_\_\_.  
a ) Aspergillus niger                      b ) Monascus purpureus  
c ) Penicillium notatum                d ) Trichoderma polysporum
- CO<sub>2</sub> is not released during  
a ) Alcoholic fermentation              b ) Lactate fermentation  
c ) Aerobic respiration in animals     d ) Aerobic respiration in plants
- The gases produced in anaerobic sludge digesters are  
a ) Methane, oxygen and hydrogen sulphide  
b ) Hydrogen sulphide, methane and sulphur dioxide  
c ) Hydrogen sulphide, nitrogen and methane  
d ) Methane, hydrogen sulphide and CO<sub>2</sub>
- Which of the following microorganism is used for production of citric acid in industries?  
a ) Lactobacillus bulgaris                b ) Penicillium citrinum  
c ) Aspergillus niger                        d ) Rhizopus nigricans
- The most common substrate used in distilleries for the production of ethanol is \_\_\_\_\_.  
a ) Soyameal                                  b ) Groundgram  
c ) Molasses                                  d ) Corn meal

$$3 \times 2 = 6$$

6. List the advantages of biogas plants in rural areas.
7. What is bioremediation?
8. When does antibiotic resistance develop?

$$3 \times 3 = 9$$

9. What is referred to as industrial alcohol? Briefly describe its preparation.
10. Give any two bioactive molecules produced by microbes and state their uses.
11. How is milk converted into curd? Explain the process of curd formation.

$$1 \times 5 = 5$$

12. Define the following terms:
- a) Antibiotics
  - b) Zymology
  - c) Superbug