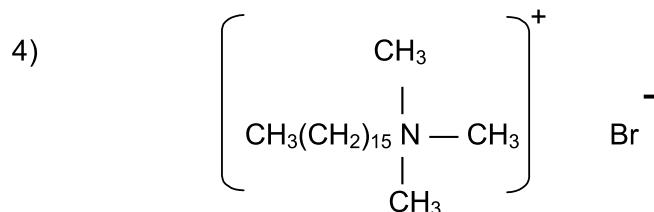


UNIT -16
CHEMISTRY IN EVERYDAY LIFE

1 Mark Question

- 1) Which among the following is a semi synthetic modification of penicillin
Erythromycin, ampicillin, tetracycline, ofloxacin.
- 2) Substances produced wholly or partly by chemical synthesis, which in low concentrations inhibits the growth or destroys microorganisms by intervening in their metabolic processes. Identify the substance.
- 3) Drugs are classified as
- | | | |
|------------------|---|--------------|
| Aspirin | – | analgesic |
| Chlordiazepoxide | – | tranquilizer |
| Penicillin | – | antibiotic |
- Mention on what basis the above classification is done?



Identify the type of detergent given in the above structure.

- 5) Which of the following drug combinations is not correct and state why?
- | | | |
|-----------------|---|----------------------------|
| Chloramphenicol | – | broad spectrum antibiotic. |
| Equanil | – | sedative. |
| Phenacetin | – | antipyretic. |
| Bithional | – | tranquilizer. |

2 Mark Questions

6) Analysis of water in a place shows that the water contains Magnesium Chloride. The people in that place are advised to use detergents for washing clothes. Why?

7) Pick out the odd one from the following and mention why?

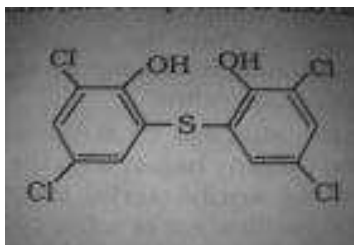
Erythromycin, penicillin, tetracycline, chloramphenicol

8) Antiallergics and antacids are antihistamines. Can antiallergics be used to reduce the acidity of the stomach? Give plausible reason for your answer.

9) Following drugs are used as analgesics. One among them is different from others. Identify it and state the reason.

Morphine, Heroin, Aspirin, Codeine.

10)



- i. Identify the compound.
- ii. What is its use?

11) Birth control pills essentially contain a mixture of synthetic estrogen and progesterone. What are estrogen and progesterone? Why are they used in birth control pills?

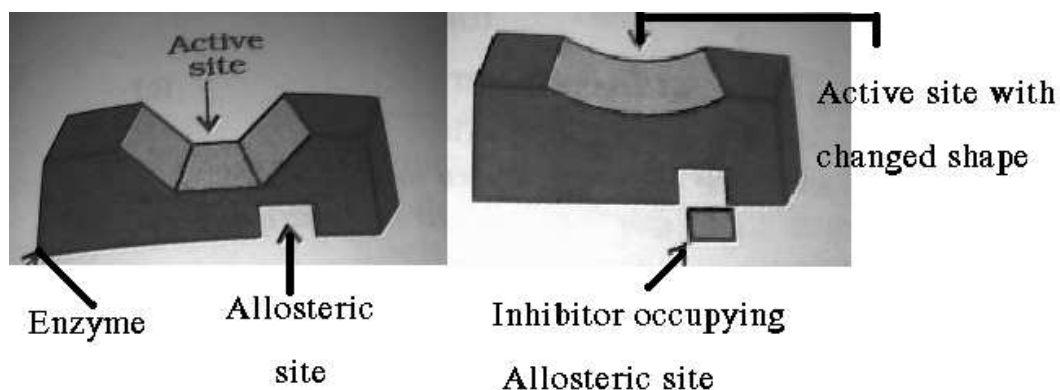
12) Sodium and Potassium soaps are only used for cleaning purposes. Why?

13) Detergents containing unbranched chains are more preferable than those containing branched chains. State the reason.

14) Low level of noradrenalin is the cause of depression. Suggest drugs to cure this problem?

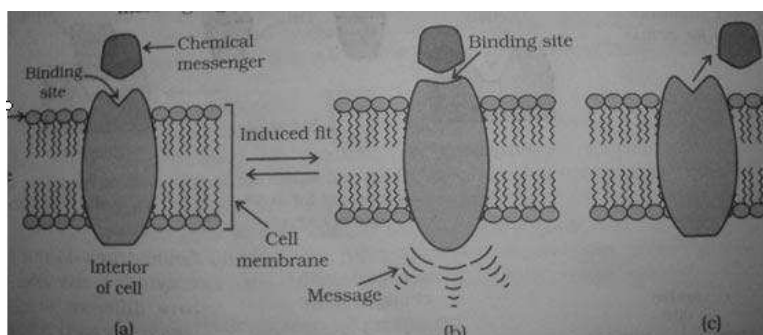
3 Mark Questions

15) Observe the diagram and answer the questions given below:



- Name the drug target.
- What is meant by allosteric site?
- Mention the role of inhibitors.

16) Observe and identify the steps a, b, c from the diagram given below:



17) Sodium hydrogen carbonate and ranitidine are used as antacids. Which one is a better choice? Why?

18) Identify the following substances:

- It is about 550 times as sweet as cane sugar and excreted from body in urine unchanged.
- It is 100 times as sweet as cane sugar and its use is limited to cold food and soft drinks as it is unstable at cooking temperature.
- It is a trichloro derivative of Sucrose and it is stable at room temperature.