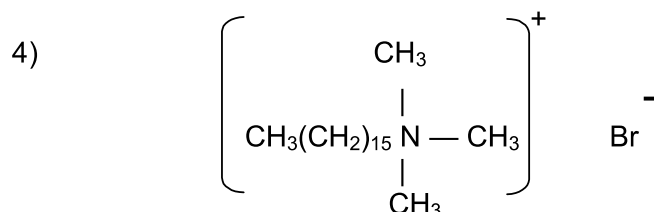


UNIT -16
CHEMISTRY IN EVERYDAY LIFE

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?

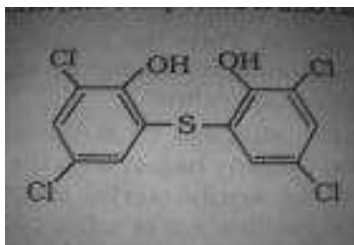
Erythromycin, penicillin, tetracycline, chloramphenicol

- 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)

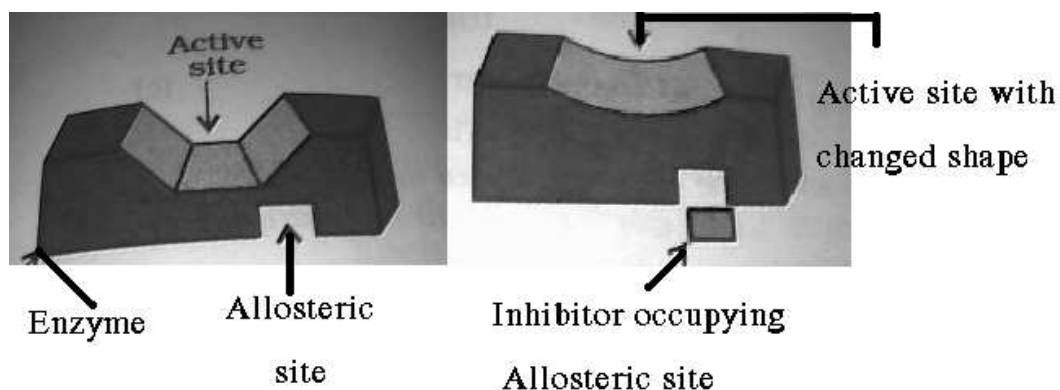


- i. Identify the compound.
- ii. What is its use?

- 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?

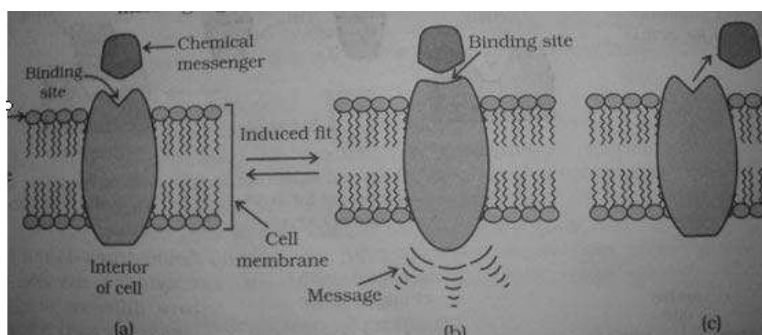
3 Mark Questions

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.

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