



CHEMISTRY

BOOKS - CBSE COMPLEMENTARY MATERIAL CHEMISTRY (HINGLISH)

CHEMISTRY IN EVERYDAY LIFE

Multiple Choice Questions

1. Which of the following is not a tranquilizer?

A. Barbituric acid

B. Second

C. Luminal

D. Phenactin

Answer: D



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2. Which of the following is not an antibiotic ?

A. Chloramphenicol

B. Sulphadiazine

C. Pencillin

D. Bithional

Answer: D



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3. 2-Acetoxy benzoic acid is

A. antiseptic

B. antipyretic

C. antibiotic

D. mordant dye

Answer: B



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4. Which of the following is used as an antioxidant in foods?

A. saccharin

B. Methylated hydroxyanisole

C. Ormeloxifene

D. Cochinical

Answer: B



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5. Which is the correct statement about birth control pills?

A. contain estrogen only

B. contain progesterone only

C. contain a mixture of oestrogen and progesterone derivative

D. Progesterone enhances ovulation.

Answer: C



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6. Which of the following statements about aspirin is not true ?

A. Aspirin belongs to narcotic analgesics

B. It is effective in relieving pain

C. It has antiblood clotting action

D. It is a neurologically active drug.

Answer: A



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7. Salvarsan is arsenic containing drug which was first used for the treatment of_____.

A. Syphilis

B. Typhoid

C. Meningites

D. Dysentery

Answer: A



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8. A narrow spectrum antibiotic is active against

A. gram positive or gram negative bacteria

B. gram negative bacteria only

C. single organism or one disease

D. both gram positive and gram negative
bacteria

Answer: A



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9. The compound that causes general antidepressant action on the central nervous system belongs to the class of

A. analgyceies

B. tranquilizers

C. narcotic analyseies

D. antihistamines

Answer: B



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10. Equanil is a

A. artificial sweetener

B. tranquilizer

C. antihistamine

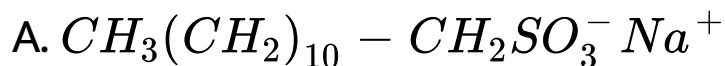
D. antifertility drug

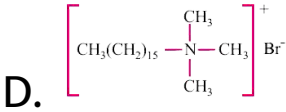
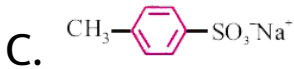
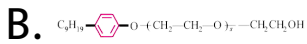
Answer: B



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11. Which of the following is an example of liquid dishwashing detergent ?





Answer: B



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12. Which of the following is not a target molecule for drug function in body?

A. Carbohydrates

B. Lipids

C. Vitamins

D. Proteins

Answer: C



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13. Which of the following are not used as food preservatives?

A. Table salt

B. Sodium hydrogencarbonate

C. Cane sugar

D. Benzoic acid

Answer: A::C



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14. Which of the following statements are correct about barbiturates ?

A. Hypnotics or sleep producing agents

B. These are tranquilizers

C. Non-narcotic analgesics

D. Pain reducing without disturbing the nervous system.

Answer: A::B



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15. Which of the following is not antidepressants ?

A. 1 proniazed

B. phenelzine

C. equanil

D. salvarsan

Answer: A::B::C



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**Multiple Choice Questions Matching Column
Type**

1. Match the medicine given in Column I with their uses given in Column

Column I	Column II
A. Ranitidine	1. Tranquilizer
B. Furacine	2. Antibiotic
C. Phenelzine	3. Antihistamine
D. Chloramphenicol	4. Antiseptic
	5. Antifertility drug



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2. Match the class of compounds given in Column I with their functions given in Column

II.

Column I	Column II
A. Antagonists	1. Communicate message between two neurons and that between neurons to muscles.
B. Agonists	2. Bind to the receptor site and inhibit its natural function.
C. Chemical messenger	3. Crucial to body's communication process.
D. Inhibitors	4. Mimic the natural messenger.
E. Receptors	5. Inhibit activities of enzymes.



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Multiple Choice Questions Assertion And Reason Type Questions

1. Assertion (A) Enzymes have active sites that hold substrate molecule for a chemical

reaction.

Reason (R) Drugs compete with natural substrate by attaching covalency to the active site of enzyme.

A. Assertion and reason both are correct statement but reason does not explain assertion.

B. Assertion and reason both are correct and reason explains the assertion.

C. Both assertion and reason are wrong statement

D. Assertion is correct statement reason in wrong statement.

Answer: d



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2. Assertion (A) Competitive inhibitors compete with natural substrate for their attachment on the active sites of enzymes.

Reason (R) In competitive inhibitor binds to the allosteric site of the enzyme.

A. Assertion and reason both are correct statement but reason does not explain assertion.

B. Assertion and reason both are correct and reason explains the assertion.

C. Both assertion and reason are wrong statement

D. Assertion is correct statement reason in wrong statement.

Answer: d



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Multiple Choice Questions Integer Type Questions

1. The number of antibiotics among the following is ampicillin, sulphanimide, veronal, equanil, serotonin, luminal, seconal.

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---



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Very Short Answer Type Questions

1. Write the formula and IUPAC name of aspirin.



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2. Name the type of drugs having following structural formula :



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3. Name two types of the drugs classified on the basis of pharmacological effect.



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4. What is the role of Bithional in toilet soaps ?



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5. Why is sodium benzoate added to packed containers of jams and pickles ?



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6. Why the receptors embedded in cell membranes show selectivity for one chemical messenger over the other ?



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7. With reference to which classification has the statement, “ranitidine is an antacid” been given?



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8. Give the name of medicine used for the treatment of syphilis.



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9. Give the composition of tincture of iodine.



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10. How does aspirin act as analgesic ?



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11. Name the antiseptic agents present in dettol.



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12. What precaution should be taken before administrating penicillin to a patient ?



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13. Explain why aspirin finds use in prevention of heart attacks ?



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14. Mention one use of drug meprobamate.



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15. Name the derivative of sucrose which tastes like sugar and can be safely used by weight conscious people.



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16. Why synthetic detergents are preferred over soaps for use in washing machines ?



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17. While antacids and antiallergic drugs interfere with the function of histamines, why do these not interfere with the function of each other ?



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18. Which of the following two compounds can be used as a surface agent and why ?



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19. What type of drug is chloramphenicol?



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20. Name a substance that can be used as an antiseptic as well as a disinfectant.



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21. Give two examples of antidepressants.



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22. Name the antioxidants commonly used to increase the storage of butter.



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23. Give the name of medicine having $-As = As$ linkage.



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24. Which antibiotic is supposed to be toxic towards certain strains of cancer cells ?



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25. Name one antioxidant used in wine, butter and beers.



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26. Hair shampoos belong to which class of synthetic detergent ?



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27. Dishwashing soaps are synthetic detergents. What is their chemical nature ?



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28. What is the cause of a feeling of depression in human beings ? Name a drug which can be useful in treating this depression .



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29. How is acidity cured with cimetidine or ranitidine ?



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Short Answer I Type Questions

1. What are antihistamines ? Give an example.



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2. What are narcotic and non-narcotic analgesics ? Give one example of each.



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3. Explain the following terms as used in medicinal chemistry :

Target molecules



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4. Explain the following terms as used in medicinal chemistry :

Enzyme inhibitors



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5. Give one important use of each of the following :

Equanil



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6. Give one important use of each of the following :

Morphine



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7. What are neurologically active drugs ? Give two examples.



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8. What are antibiotics ?



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9. What is meant by the term 'broad spectrum antibiotics' ? Explain.



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10. From the given examples – ciprofloxacin, phenelzine, morphine, ranitidine – choose the drug used for : treating allergic conditions



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11. From the given examples – ciprofloxacin, phenelzine, morphine, ranitidine – choose the drug used for : to get relief from pain



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12. Why a drug should not be taken without consulting a doctor ? Give two reasons.



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13. State the main difference between bacteriostatic and bactericidal antibiotics. Give one example of each.



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14. What are antifertility drugs ? Name the constituents of an oral contraceptive.



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15. What do you mean by non-biodegradable detergents ? How can we make biodegradable detergents ?



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16. If water contains dissolved calcium hydrogencarbonate, which out of soap and detergent, will you prefer to use ? Why ?



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17. What are barbiturates ? What is the action of barbiturates on human body ?



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18. Write the structures of soaps obtained by the hydrolysis fat : $(C_{15}H_{31}COO)_3C_3H_5$

Glyceryl palmitate



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19. Write the structures of soaps obtained by the hydrolysis fat : $(C_{17}H_{33}COO)_3C_3H_5$

Glyceryl oleate



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20. What are antagonist and agonist drugs ?



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21. What is the advantage of using antihistamines over antacids in the treatment of acidity ?



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22. Write two side effects of Aspirin.





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23. What are sulpha drugs ? Give two examples.



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24. Which forces are involved in holding the drugs to the active site of enzymes ?



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Short Answer II Type Questions

1. Why are artificial sweetening agents harmless when taken ?



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2. Give one example of artificial sweetening agent.



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3. Why is the use of aspartame as an artificial sweetener limited to cold foods ?



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4. Pick out the odd one from amongst the following compounds on the basis of their medicinal properties mentioning the reason :
Luminal , seconal , phenacetin , equanil .



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5. Pick out the odd one amongst on the basis of their medicinal properties. Give suitable reason : Chloroxylenol, phenol, chloamphenicol, bithional.



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6. Pick out the odd one amongst on the basis of their medicinal properties. Give suitable reason : Sucralose, aspartame, alitame, sodium benzoate.





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7. Give the main function Enzymes in the body of human beings ?



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8. Give the main function Receptor proteins in the body of human beings ?



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9. Give the main function Neurotransmitter in the body of human beings ?



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10. Identify the class of drug :

Phenelzine (Nardin)



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11. Identify the class of drug :

Aspirin



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12. Identify the class of drug :

Cimetidine



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13. Give the pharmacological function of

Analgesics ?



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14. Give the pharmacological function of Tranquilizers?



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15. Give the pharmacological function of Antifertility drugs ?



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16. Give the name of medicine used in the treatment of Typhoid ?



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17. Give the name of medicine used in the treatment of Join pain (in Arthritis) ?



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18. Give the name of medicine used in the treatment of Hypertension ?



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19. Give the class of drug in which Bithional belong ?



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20. Give the class of drug in which Amoxycillin belong ?



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21. Give the class of drug in which Salvarsan belong ?



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22. How are antiseptics different from disinfectants ? How does an antibiotic differ from these two ? Give one example of each of them.



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23. Explain Cationic detergents with suitable examples ?



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24. Explain Anionic detergents with suitable examples ?



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25. Explain Non-ionic detergents with suitable examples ?



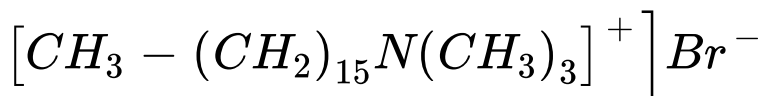
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26. Classify the following as cationic detergents, anionic detergents or non-ionic detergent



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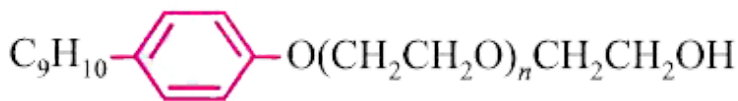
27. Classify the following as cationic detergents, anionic detergents or non-ionic detergent





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28. Classify the following as cationic detergents, anionic detergents or non-ionic detergent



Where ($n = 5 - 10$)



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29. How do enzyme inhibitors work ?

Distinguish between competitive and non-

competitive enzyme inhibitors.



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30. What class of drugs is ranitidine ?



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31. If water contains dissolved Ca^{2+} ions, out of soaps and synthetic detergents, which will you use for cleaning clothes ?



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32. Which of the following is an antiseptic :

0.2% phenol or 1% phenol



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Long Answer Type Questions

1. Discuss two ways in which drugs prevent the attachment of native substrate on active site of an enzyme.



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2. What are antibiotics ? Distinguish between narrow spectrum and broad spectrum antibiotics. Classify the following into bactericidal bacteriostatic antibiotics :
Tetracycline, Penicillin, Ofloxacin and Chloramphenicol.



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