

Chemistry in everyday life (Module -1)

Work sheet

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1. Subjective questions- (short answer type):

- Write the uses of medicines.
- Where are receptors located?
- Distinguish between drugs and medicines
- Define the terms-i) drug target ii) Antacids iii) Antihistamines
- Name two macromolecules used as drug targets
- What do you understand by the term allosteric site
- Name the different type of bonds involved in holding substrate to active site of the enzyme.

2. Multiple choice questions: (single correct option)

- Which among the following is not an antihistamine drug:
i) Terfenadine ii) Bithionol iii) Seladane iv) Dimetapp
- The chemical name of Benadryl is:
i) Chlorpheniramine ii) Brompheniramine
iii) Diphenhydramine iv) Promethazine
- Drug that binds to receptor site and inhibits its natural function:
i) Antagonists ii) Chemical messengers iii) Agonists iv) Receptor

3. Multiple choice questions: (more than one correct option)

- Which among the following is/are common antacid/s:
i) $Mg(OH)_2$ ii) $Al(HCO_3)_3$ iii) $AlPO_4$ iv) $NaOH$
- Which among the following are the functions of histamine:
i) Interfere with natural action ii) Helps in increasing alkalinity in stomach
iii) Vasodilator iv) Nasal congestion

4. Fill in the blanks:

- The drug cimetidine is used to stimulate the secretion of _____ & _____
- Zantac is commercial name of _____
- The substance which lowers the acidity of the stomach is called _____

5. Reason assertion type:

In the question given below two statements are given.

One is labelled as assertion(A) and the other is reason(R). Read question carefully and mark correct choice I, ii, iii & iv according to given instructions

- If both A & R are correct and R is explanation of A
 - If both A & R are correct and R is not the explanation of A
 - If A is correct & R is wrong
 - If A is wrong & R is correct.
- A-Metal hydroxides are better alternatives to carbonates and bicarbonates
R-They are insoluble and don't increase pH above neutrality.
 - A-Ranitidine is used to treat hyperacidity
R- Ranitidine is used to neutralise excess acid in stomach

ANSWER KEY

ii. Subjective questions- (short answer type):

- h) Write the uses of medicines.
- i) Where are receptors located?
- j) Distinguish between drugs and medicines
- k) Define the terms-i) drug target ii) Antacids iii) Antihistamines
- l) Name two macromolecules used as drug targets
- m) What do you understand by the term allosteric site
- n) Name the different type of bonds involved in holding substrate to active site of the enzyme.

2. Multiple choice questions: (single correct option)

- b) Which among the following is not an antihistamine drug:
i) Terfenadine ii) Bithionol iii) Seladane iv) Dimetapp ans- ii

b) The chemical name of Benadryl is:

- i) Chlorpheniramine ii) Brompheniramine ans- iii
iii) Diphenhydramine iv) Promethazine

d) Drug that binds to receptor site and inhibits its natural function:

- i) Antagonists ii) Chemical messengers iii) Agonists iv) Receptor ans: i

3. Multiple choice questions: (more than one correct option)

a) Which among the following is/are common antacid/s:

- i) $Mg(OH)_2$ ii) $Al(HCO_3)_3$ iii) $AlPO_4$ iv) $NaOH$ ans- i & iii

b) Which among the following are the functions of histamine:

- i) Interfere with natural action ii) Helps in increasing alkalinity in stomach
iii) Vasodilator iv) Nasal congestion ans- i & ii

solution- i- it is function of antihistamine, antacids increase alkalinity

4. Fill in the blanks:

- i) The drug cimetidine is used to stimulate the secretion of _____ & _____

ans- pepsin and HCl

- ii) Zantac is commercial name of _____

ans- Ranitidine

- iii) The substance which lowers the acidity of the stomach is called _____ ans- antacid

5. Reason assertion type:

In the question given below two statements are given.

One is labelled as assertion(A) and the other is reason(R). Read question carefully and mark correct choice I, ii, iii & iv according to given instructions

- i) If both A & R are correct and R is explanation of A
 - ii) If both A & R are correct and R is not the explanation of A
 - iii) If A is correct & R is wrong
 - iv) If A is wrong & R is correct.
- c) A- Metal hydroxides are better alternatives to carbonates and bicarbonates
R- They are insoluble and don't increase pH above neutrality. Ans- i
- d) A- Ranitidine is used to treat hyperacidity
R- Ranitidine is used to neutralise excess acid in stomach ans- iii)

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References: -

Chemistry NCERT textbook part II Class XII

Comprehensive Chemistry Vol=II Class XII