Class tasks

Task 1.

Divide the following drugs into the groups:

Group	Drugs
Antihelminthic	
Antifungal	
a) antibiotics	
b) azoles	
c) undecylenic acid derivatives	

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Antiviral	
d) anomalous nucleosides	
f) adamantine derivatives	
j) pyrophosphate analogues	

Drugs.

		Drugs.	
1.	Nystatin	8.	Zincundan
2.	Miconazole	9.	Mebendazole
3.	Natamycine	10.	Levamisole
4.	Griseofulvin	11.	Prasiquantel
5.	Pyrantel	12.	Ribavirine
6.	Pirazinamide	13.	Sodium foscarnet
7.	Gancyclovir	14.	Remantadine

Task 2.

Learning the mechanism of antihelminthic, antifungal, antiviral drugs action match the letters (mechanism of action) with numbers (names of drugs).

		Drugs	
1.	Pyrantel	9.	Prasiquantel
2.	Ethylene tetrachloride	10.	Remantadine
3.	Levamisol	11.	Albendazole
4.	Ribavirine	12.	Interferon- α-1
5.	Cycloferon	13.	Mebendazole
6.	Fluconazole	14.	Clion D
7.	Aminoacrichine	15.	Famcyclovir
8.	Natamycine	16.	Amixin

Mechanism of action

A. Disturb the neuromuscular system functions in helminths.

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- B. Increase of helminths muscular tone turning into spastic paralysis.
- C. Increases calcium ion permeability of cell membranes of helminths promoting the increase of their muscular tone turning into spastic paralysis.
- D. Disturb metabolic processes in helminths
- E. Inhibit viral RNA release from protein, altering RNA penetration into cell nucleus.
- F. Inhibit viral RNA and DNA synthesis.
- G. Block viral-specific protein synthesis.
- H. Stimulate synthesis of endogenous interferon in human body.
- Inhibition of ergosterol synthesis.

Task 7.

From the proposed list of side effects match the letters (drugs) with numbers (names of side effects).

Drugs

A. Interferons	C. Acyclovir
B. Zidovudine	D. Remantadine

Side effects

1.Hallucinations	6. Bone marrow suppression
2. Myalgia	7. Fever
3. Nephrotoxicity	8. Headache
4. Nausea, vomitig	9. Hepatitis and cholestasis
5. Heart failure	10. Insomnia

Task 4

Name the **principal mechanisms of action** for:

1. Antifungal drugs

- a –azoles
- b allylamines
- c polyene antibiotics

2. Antiviral drugs

- a abnormal nucleosides
- b-interferons
- c-drugs used in HIV note that there are several mechenisma, name them and give the examples of drugs