

CHAPTER -5| PART-3

DRUG ACTING ON NERVOUS SYSTEM

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Biological source, chemical constituents and therapeutic efficacy of the following categories of crude drugs.

Drugs acting on nervous system

Hyoscyamus, Belladonna, Ephedra, Opium, Tea leaves, Coffee seeds, Coca

□ Central Nervous System

- The CNS consists of the brain and spinal cord.

सीएनएस में मस्तिष्क और रीढ़ की हड्डी शामिल होती है।

- The brain plays a central role in the control of most bodily functions, including awareness, movements, sensations, thoughts, speech and memory.

मस्तिष्क जागरूकता, गतिविधियों, संवेदनाओं, विचारों, भाषण और स्मृति सहित अधिकांश शारीरिक कार्यों के नियंत्रण में केंद्रीय भूमिका निभाता है।

- There are many different types of drugs that work on the CNS, including anaesthetic, Anticonvulsant, anti-emetics, antiparkinson agents, muscle relaxants etc.

कई अलग-अलग प्रकार की दवाएं हैं जो सीएनएस पर काम करती हैं, जिनमें एनेस्थेटिक, एंटीकॉन्वल्सेंट, एंटी-इमेटिक्स, एंटीपार्किंसंस एजेंट, मांसपेशियों को आराम देने वाली दवाएं आदि शामिल हैं।

□ Drug Acting on autonomic nervous system

औषधि स्वायत्त तंत्रिका तंत्र पर कार्य करती है

- It is considered as automatic nervous system and controls the functions like respiration, circulation, digestion and maintenance of body temperature

इसे स्वचालित तंत्रिका तंत्र माना जाता है और यह श्वसन, परिसंचरण, पाचन और शरीर के तापमान के रखरखाव जैसे कार्यों को नियंत्रित करता है

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Hyoscyamus हायोसायमस	It consists of dried leaves and flowering tops of the plant known as hyoscyamus niger linn	<ul style="list-style-type: none"> ▪ Hyoscyamine 	<ul style="list-style-type: none"> ▪ Antispasmodic hypnotic and mild diuretic ▪ Used for relieve pain in cystitis ▪ Relieve the spasms urinary tract

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Belladonna बेलादोत्रा	It consists of dried leaves and other aerial part of <i>atropa belladonna</i> linn	<ul style="list-style-type: none"> ▪ L-hyoscyamine ▪ Belladonnine 	<ul style="list-style-type: none"> ▪ Reduce secretion of sweat salivary ▪ Parasympathetic depressant. ▪ Narrow-angle glaucoma ▪ Enlarged prostate

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Ephedra	Ephedra consists of dried young stem of ephedra gerardiana wall	<ul style="list-style-type: none">▪ Ephedrine	<ul style="list-style-type: none">▪ Used for early relief of asthma▪ Use for whooping cough▪ Use for nasal congestion, cough, fever, and chills.

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Opium अफीम	Opium consists of dried latex obtained from the unripe capsules of the plants, papaver somniferum	<ul style="list-style-type: none"> ■ Morphine ■ Narcotine ■ Codeine 	<ul style="list-style-type: none"> ■ Used to reduces atherosclerosis ■ Used to relief of pain ■ Used in antidiarrheal for common cold and cough and insomnia

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Tea चाय की पत्तियां	The biological source of tea is prepared leaves and leaf buds <i>thea sinensis</i>	<ul style="list-style-type: none"> ▪ Caffeine ▪ Gallotannic acid 	<ul style="list-style-type: none"> ▪ Used as stimulant, astringent and also as diuretic ▪ Treatment cancer, heart disease, and diabetes; encourage weight loss; lower cholesterol

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Coffee seeds काँफ़ी के बीज	The biological source of coffee is its dried ripe seed <i>coffea arabica</i> linn	<ul style="list-style-type: none"> ▪ Tannins, fixed oils and proteins ▪ Caffeine present in coffee bean is 2-3 % . 	<ul style="list-style-type: none"> ▪ Cardiotonic action ▪ Hypnotic and lactagogue ▪ Fever, gout, diarrhea, cough and headache

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
Coca कोका	The biological source of coca is its dried leaves erythroxyton coca	<ul style="list-style-type: none"> ▪ Cocaine, cinnamyl cocaine and alpha-truxilline 	<ul style="list-style-type: none"> ▪ Stimulant action on CNS. ▪ Fatigue. ▪ Nausea ▪ Vomiting

□ Important question

- 1) Write a note on drug acting on nervous system with suitable example.
- 2) Write the biological sources, chemical constituent & therapeutic activity of tea leaves
- 3) Write a therapeutic effect of coca.
- 4) Write the biological sources, chemical constituent & therapeutic activity of Hyoscyamus

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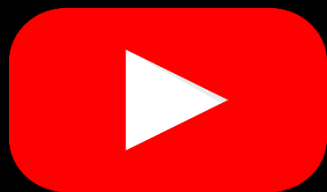
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