

# CHAPTER -5|

## PART-1

### LAXATIVES & CARDIOTONIC

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

Laxatives

Aloe, Castor oil, Ispaghula, Senna

Cardiotonic

Digitalis, Arjuna

# LAXATIVES

- The drugs are loose the bowels (Intestine) or the drugs producing increasing and hosting intestinal evacuation.

औषधियाँ आंतों (आंतों) को ढीला करती हैं या औषधियाँ आंतों की निकासी को बढ़ाने और बढ़ाने वाली होती हैं।

- Laxatives are indicated in constipation and in evacuation of the bowel, prior to diagnostic procedure or surgery.

डायग्नोस्टिक प्रक्रिया या सर्जरी से पहले, कब्ज और आंत्र की निकासी में जुलाब का संकेत दिया जाता है।

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
ALOE	It is the dried juice of the leaves of Aloe barbadensis Miller. (Curacao aloes)	Barbaloin	<ul style="list-style-type: none"><li>▪ Improves digestive health.</li><li>▪ Promotes oral health.</li><li>▪ Clears acne.</li><li>▪ Relieves anal fissures</li><li>▪ It used as irritant purgative</li><li>▪ It use for cosmetic and protective</li><li>▪ It also used for treatment of radiation burn</li></ul>

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
CASTOR OIL	It is the fixed oil obtained by the cold expression of the kernels of seeds of <i>Ricinus communis</i>	<ul style="list-style-type: none"><li>▪ ricinoleic acid</li><li>▪ Fatty acids</li><li>▪ Isoricinoleic</li><li>▪ linoleic</li></ul>	<ul style="list-style-type: none"><li>▪ used as a cathartic.</li><li>▪ used for lubrication commercially.</li><li>▪ used as an irritant/simulative laxative.</li></ul>

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
ISPABGHULA	It consists of dried seeds of the plant known as <i>Plantago ovata</i> Forskal.	<ul style="list-style-type: none"><li>▪ Isapgol seed contain mucilage</li><li>▪ It consists of pentosan and aldobionic acid</li></ul>	<ul style="list-style-type: none"><li>▪ useful in dysentery, chronic diarrhoea, in cases of duodenal ulcers and piles.</li></ul>

<b>PLANT</b>	<b>BIOLOGICAL SOURCES</b>	<b>CHEMICAL CONSTITUENT</b>	<b>USES</b>
SENNA	It consist of dried leaflets of Cassia angustifolia	<ul style="list-style-type: none"><li>▪ sennosideA</li><li>▪ sennosideB</li><li>▪ sennoside C</li><li>▪ Sennoside D</li></ul>	<ul style="list-style-type: none"><li>▪ used as laxatives.</li><li>▪ It is an irritant purgative due to presence of anthraquinone derivatives.</li></ul>

# CARDIOTONIC

- The drugs which gives Strength or energy to the activity of the heart.

वे औषधियाँ जो हृदय की क्रिया को शक्ति या शक्ति प्रदान करती हैं।

- Cardiotonic drugs increase the force of the contraction of the muscle (myocardium) of the heart.

कार्डियोटोनिक दवाएं हृदय की मांसपेशियों (मायोकार्डियम) के संकुचन के बल को बढ़ाती हैं।



PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
DIGITALIS	It consists of dried leaves of Digitalis purpurea at 60°C below temperature after collecting the leaves	Cardiacglycosides (Cardenolides) 0.2 to 0.45 % Purpurea glycosides.	<ul style="list-style-type: none"> <li>congestive cardiac failure to increase cardiac output and relieve venous congestion.</li> </ul>

PLANT	BIOLOGICAL SOURCES	CHEMICAL CONSTITUENT	USES
ARJUNA	Arjuna consists of dried stem bark of the plant known as Terminalia arjuna Rob	<ul style="list-style-type: none"> <li>▪ triterpenoid saponins, arjunolic acid</li> <li>▪ Arjunic acid</li> <li>▪ arjungenin</li> </ul>	<ul style="list-style-type: none"> <li>▪ Arjun is astringent, sweet, acrid, cooling, aphrodisiac, urinary astringent, and expectorant, but, chiefly used as cardio tonic as it improves blood supply to heart</li> </ul>

## □ Important question

- 1) Write a note on cardiogenic with suitable example.
- 2) Write the biological sources, chemical constituent & therapeutic activity of arjuna.
- 3) Write a short note on senna
- 4) Write the biological sources, chemical constituent & therapeutic activity of castor oil
- 5) Write a note on laxatives with suitable example

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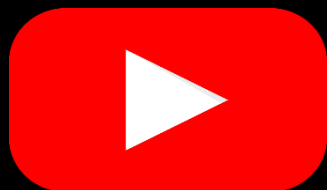
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