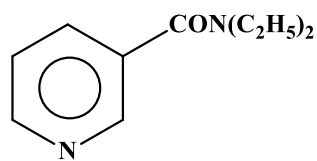


CNS Stimulants

- CNS Stimulants may also be defined as “drug substances” that most specifically afford an enhancement in excitability either very much within the different portions of brain or the spinal cord.
- Analeptics are CNS stimulants that include a wide variety of medications used to treat depression, attention deficit hyperactivity disorders and respiratory depression.
- Drugs that have a predominantly stimulant effect on the CNS fall into three broad categories:

A. Convulsant and Respiratory stimulants:

Eg.- Nikethamide (Respiratory stimulant):



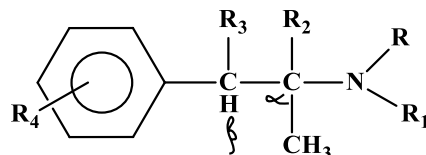
Pentylene tetrazole (Convulsant stimulant)

Picrotoxin

Strychnine

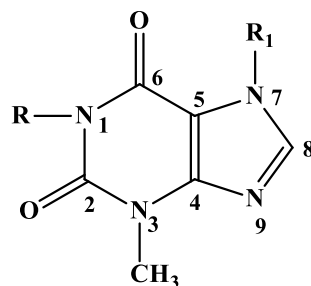
B. Psychomotor stimulants:

1. β -Phenylethylamine derivatives:



Drug	R	R ₁	R ₂	R ₃	R ₄
Amphetamine	H	H	H	H	H

2. Methylxanthines:



Drug	R	R ₁
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Caffeine	CH ₃	CH ₃
Theophylline	CH ₃	H
Theobromine	H	CH ₃

C. Psychomimetic drugs (Hallucinogenic drugs):

Eg.- Lysergic acid diethylamide (LSD)

Cannabis.