09

TNPSC GROUP II / IIA MAINS SCERT - SCIENCE & TECHNOLOGY QUESTION WITH ANSWER

9.

Drug and Alcohol Abuse

- "The intake of certain drugs for a purpose other than their normal clinical use in an amount and frequency that impair one's physical, physiological and psychological functions".

Common Drugs

- 1. Opioids
- 2. Cannabinoids
- 3. Coca alkaloids
- 4. Barbiturates
- 5. LSD Lysergic acid diethylamide

1. Opioids

- Binds to specific opioid receptons in central nervous system and intestinal tract.
- Heroin (Smack) diacetyl maxphine
- Morhpine extracted from flowers of poppy plant
- Morphine is one of the stronget pain killer and is used during surgery
- Acts as depressant slows down body functions.

2. Cannabinoids

- Cannabids sativa (Indian hemp plant)
- Source of Marijuana, Ganja, hashish & charas
- Interferes in transport of neurotransmiter Dopamine
- Increased energy & a sense of euphorica

3. Cocaine

- White powder obtained from leaves of coca plant Erythroxcylum coca
- Commonly called coke / crakc
- Hallucintions and paranoia



4. Barbiturates & LSD

- To treat patients with mental illness - dpression & Insomnia

5. Tobacco

- Increases carbon monoxide content of blood & reduce haembound oxygen
- Contains Nicotine, CO and tars
- Adrenal glands are stimulated by Nicotine
- Increases Blood pressure and heart rate
- Addiction Physical / psychological need to do / tke / use certain substance (Alcohol) to the point where it could be harmful to be individual.

Consequence of durg abuse

- Increased addition & dpendence
- Repeated use affect the tolerance level of body receptors
- Physical dependence
- 'Liver airhosis' Scaning in the liver due to over time fat accumulation destroying liver cells.
- Excessive alcohol weakens heart muscle, heart attack
- Korsak off syndrome chronic memory disorder due to alcohol misuse

Prevention & control

- Effectively dealing with peer pressure
- Seeking help from parents and peers
- Education and counselling
- Looking for danger signs
- Seeking professional and medical assistance

Classification of drugs

- Stimulants Amphetamines, cocaine, Nicotine & Tobacco
- Depressants Alcohol, Barbiturates
- Narcoties Optium, Morphine
- Hallucinogens LSD, Phencyclidine