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Class: B.A.Sem (05)
Paper: MJC-8
Topic: public goods

Introduction

A public good is a commodity or service available to all members of society without reducing its availability to others, typically provided by the government and funded through taxes.

A public good is a commodity or service that every member of a society can use without reducing its availability to all others. Typically, a public good is provided by a government and funded through taxes.

Examples of public goods include town roads, parks, and schools. National defense is also a public good. Public goods can also include basic needs like clean air and drinking water.

- Public goods are characterized by their non-rivalrous and non-excludable nature, meaning they can be consumed by many without depleting availability and are accessible to all citizens.
- Common examples of public goods include national defense, clean air, and public parks, which are typically funded through taxation to benefit all members of society.
- The "free rider problem" occurs when some individuals consume a public good without contributing to its funding, leading to debates over taxation and spending.
- The distinction between public and private goods lies in their consumption: private goods are rivalrous and excludable, often requiring payment and limiting access.
- Some resources, known as quasi-public goods, exhibit qualities of both public and private goods, like public museums that may charge an entrance fee while still receiving public funding.

Understanding the Mechanisms of Public Goods

The main criteria that distinguish a public good are that it must be non-rivalrous and non-excludable. Non-rivalrous means that the goods do not dwindle in supply as more people consume them. Non-excludability means that the good is available to all citizens.

The point of contention is called the free rider problem. Public goods are available to everyone, whether or not they have paid for them. Some members of society use the good but are unable or unwilling to help pay for it. Those who don't pay taxes are essentially taking a "free ride" from those who do.

National defense, law enforcement, and clean air and water are all examples of public goods.

In economics, a public good is a more comprehensive term to describe a good or commodity accessible to everyone, and its use by one person does not deplete its availability for others. The key characteristics of a public good are non-exclusivity and non-rivalry. Non-rivalry means that multiple individuals can consume the same good without reducing its value for others. Non-exclusivity implies that no one can be excluded from using the good; it is open for consumption by anyone.

Public Goods Examples

National defence, street lighting, and law and order belong to the category of public goods, and they are equally beneficial to all. They are non-excludable and non-rivalrous; that is, no one can be denied their use, and their use does not decrease the benefit of another.

The following is a tabulated list of further examples of public goods, grouped into categories:

Security

- The military provides national defense.
- Local law enforcement, such as police protection.
- Fire protection services.
- Neighborhood watch groups.

Education and Knowledge

- Public schools.
- Public libraries.
- Scientific research and public reports.
- Educational community events.

Environment

- Clean air.
- Biodiversity.
- Ozone layer protection.
- Some aspects of water resources and fish stocks can sometimes be rivalrous.

Infrastructure

- Roads, bridges, and dams.
- Street lighting.
- Sidewalks and crosswalks.
- Sewage systems.

Public Health

- Disease control programs.
- Vaccination campaigns.
- Public information on health and hygiene.
- Hospitals and medical facilities (in some cases).

Information and Culture

- Public television and radio.
- Free and open-source software.
- Official statistics and data.
- Public fireworks and community celebrations.

Characteristics of Public Goods

Public good in economics has a plural and technical meaning not limited to the public's well-being; unlike public goods in political science, they are freely available to the consumer. They are not explicitly meant for specific groups of individuals. When one person uses it, it does not restrict others from consuming the goods. The two main qualities are

Non-Rivalrous

- When you use it, you do not limit its availability to others. Even though our tastes differ, we reap the same benefits. Consider the example of a street light. When you drive on the highway, you and others benefit from it.
- It may differ slightly for different highways. When the route is congested, the benefits accessible to others are reduced. Meanwhile, toll roads require payment to use. However, when you utilize a toll road, you cannot prevent others from using it.

Non-Excludable

- It is available for everybody, and everyone has access to it. A particular individual does not have control over who uses these goods.

Capitalism and the Public Goods

Capitalism is an economic system where an individual is free of economic activity, and the government protects other aspects of the state. Presently, most economies prefer the capitalist system. In a capitalist ecosystem, most goods available for an individual for consumption are private, but it also provides many public goods.

- Various industries, businesses, and companies work to satisfy customers' demands and produce private goods, but complementary components provide public goods to the country's citizens.
- Private businesses will generate revenue through taxes, and the government will use those taxes to provide public goods to its citizens.

- In this system, where public and private goods co-exist, private players generate goods for their customers. In turn, the State guarantees them market protection, justice, and order for the stable and safe functioning of the system.

The Relation Between Public Goods and Market Failure

- Market failure is a situation in a free market where there is an insufficient distribution of goods and services.
- Market failures generally include externalities, monopolies, information asymmetries, and factor immobility. In simple words, market failure is a public goods problem.
- The private sector is unwilling to supply entirely public goods because it is unprofitable. When a firm supplies goods and services, few people use them without paying, and they can't be stopped. This issue of free riders eventually leads to a shortage of products.
- The expenses of delivering goods outweigh the profits. The private sector has little motivation to supply such items.
- As a result, the market will be unable to supply sufficient goods or services. The government must step in because the private sector is unwilling to offer commodities. Even though they are not for-profit, they provide more significant social benefits.

Working of Public Goods

- Public goods are goods or services that are non-excludable and non-rivalrous in consumption.
- Non-excludable means that individuals cannot be excluded from using or benefiting from the good/service, regardless of whether they pay for it.
- Non-rivalrous means that one person's use or consumption of the good/service does not diminish its availability for others.
- Due to these characteristics, public goods face the "free-rider problem," where individuals can benefit from the good/service without contributing to its provision.
- Governments typically provide public goods using tax revenues and public funding to ensure they are available for all members of society.
- The provision of public goods is often justified by the belief that they promote the overall welfare and well-being of the community.