

(SOLUTION) Online Prelims TEST - 28 (SUBJECT WISE)

19 Correct Answer : D

Answer Justification :

Justification: References of Arthashastra are scattered in the Survey, and can be useful for Ethics paper and for students of Public administration.

Arthashastra explicitly presents its intellectual framework right in the beginning by stating that good governance is based on the following branches of knowledge: Varta (economic policy), Dandaneeti (law and enforcement), Anvikshiki (philosophical and ethical framework) and Trayi (cultural context).

The importance of Anvikshiki in Kautilya's writings is often ignored but is critical to understanding his worldview. Interestingly this mirrors Adam Smith who did not just advocate the "invisible hand" but equally the importance of "mutual sympathy" (i.e. trust).

The same idea is reflected in the writings of Friedrich Hayek, who advocated not only economic freedom but also a set of general rules and social norms that applies evenly to everyone.

Q Source: Ch 2: Economic Survey 2019-20

20 Correct Answer : D

Answer Justification :

Justification: Statement 1 and 3: Glucose is a ubiquitous fuel in biology. It is used as an energy source in most organisms, from bacteria to humans, through either aerobic respiration, anaerobic respiration, or fermentation. Glucose is the human body's key source of energy, through aerobic respiration, providing about 3.75 kilocalories (16 kilojoules) of food energy per gram.

Glucose is on the World Health Organization's List of Essential Medicines, the most important medications needed in a basic health system.

Statement 2: Glucose is a simple sugar with the molecular formula $C_6H_{12}O_6$, which means that it is a molecule that is made of six carbon atoms, twelve hydrogen atoms, and six oxygen atoms. Glucose circulates in the blood of animals as blood sugar.

It is made during photosynthesis from water and carbon dioxide, using energy from sunlight. It is the most important source of energy for cellular respiration. Glucose is stored as a polymer, in plants as starch and in animals as glycogen.

Q Source: based on past year UPSC papers

21 Correct Answer : A

Answer Justification :

Justification: Economic Survey 2019-20 presents entrepreneurship data relating to the physical and social infrastructure of a district which was partly accumulated from the Socioeconomic Highresolution Rural-Urban Geographic Dataset on India (SHRUG) which comprises of a set of variables that describe the extent of socio-economic development in India.

Among other things, SHRUG contains variables that describe the demographic, socioeconomic, firm and political infrastructure of every district between 1990–2018 that it cumulates from a variety of data sources. These sources comprise data from the Census of India relating to the years 1991, 2001 and 2011, Socio-Economic Caste Census of 2012, and Pradhan Mantri Gram Sadak Yojana (PMGSY) public data to construct a variety of indices that describe the social and physical infrastructure of every district in India.

SHRUG is available at http://www.devdatalab.org/shrug_download/

Q Source: Ch 2: Economic Survey 2019-20

22 Correct Answer : C

Answer Justification :

Justification: The BSE SENSEX (also known as the S&P Bombay Stock Exchange or Sensitive Index or simply the SENSEX) is a free-float market-weighted stock market index of 30 well-established and financially sound companies listed on Bombay Stock Exchange.

A capitalization-weighted (or "cap-weighted") index, also called a market-value-weighted index is a stock market index whose components are weighted according to the total market value of their outstanding shares. Every day an individual stock's price changes and thereby changes a stock index's value.

The 30 component companies which are some of the largest and most actively traded stocks, are representative of various industrial sectors of the Indian economy.

Published since 1 January 1986, the S&P BSE SENSEX is regarded as the pulse of the domestic stock markets in India. The base value of the SENSEX was taken as 100 on 1 April 1979 and its base year as 1978–79. In 2001 BSE launched DOLLEX-30, a dollar-linked version of the SENSEX.