

**S1. Ans.(b)**

**Sol.** The Inter Tropical Convergence Zone, or ITCZ, is a belt of low pressure which circles the Earth generally near the equator where the trade winds of the Northern and Southern Hemispheres come together. It is characterised by convective activity which generates often vigorous thunderstorms over large areas.

**S2. Ans.(a)**

**Sol.** The Mohorovicic Discontinuity, or "Moho," is the boundary between the crust and the mantle.

**S3. Ans.(c)**

**Sol.** A line drawn on a weather map connecting points that receive equal amounts of precipitation (rainfall, snow etc) during a given period of time is called Isohyets.

**S4. Ans.(a)**

**Sol.** Equality before law is well defined under the Article 14 i.e. Right to equality of the Constitution. It ensures that every citizen shall be likewise protected by the laws of the country.

**S5. Ans.(c)**

**Sol.** Article 17 under Right to Equality in the Indian Constitution includes abolition of untouchability.

**S6. Ans.(a)**

**Sol.** Poliomyelitis is an acute communicable disease of humans caused by a human enterovirus of the Picornaviridae family. Tetanus is an infection caused by bacteria called Clostridium tetani. Leprosy is a disfiguring disease caused by the Mycobacterium leprae bacteria. Plague is caused by the bacteria Yersinia pestis.

**S7. Ans.(a)**

**Sol.** Diastole is that part of the cardiac cycle during which the heart refills with blood after the emptying done during systole which is also known as contraction.

**S8. Ans.(c)**

**Sol.** Azadirachta indica is botanical name of neem. It is a multipurpose tree that is highly popular in India, where it provides food and insecticide, and is used for its great number of ethnomedicinal properties.

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**S9. Ans.(a)**

**Sol.** The thermosphere is the layer of the Earth's atmosphere directly above the mesosphere. It extends from about 90 km to 1,000 km above our planet. In thermosphere temperature can reach up to 4,500 degrees Fahrenheit. Thus making it the warmest layer of the atmosphere.

**S10. Ans.(d)**

**Sol.** The Nubra River originates from the Siachin glacier. The Nubra River is a tributary of the River Shyok that flows through the Nubra valley in the northern part of Ladakh and then joins the Indus River in Skardu, Pakistan.

**S11. Ans.(c)**

**Sol.** All India Anna Dravida Munnetra Kazhagam (AIADMK) is an Indian political party in the states of Tamil Nadu and Puducherry. It is currently in power in Tamil Nadu and is the third largest party in the Lok Sabha. It is a Dravidian party and was founded by M. G. Ramachandran (popularly known as MGR) on 17 October 1972 as a breakaway faction of the DravidaMunnetraKazhagam (DMK).

**S12. Ans.(c)**

**Sol.** Article 15 i.e. Right to equality of the constitution states that no person shall be discriminated on the basis of religion, race, caste, sex or place of birth. Every person shall have equal access to public places like public parks, museums, wells, bathing ghats and temples etc.

**S13. Ans.(d)**

**Sol.** President can refer to matter of national importance to supreme court.

**S14. Ans.(b)**

**Sol.** There are total 19 Parliamentary seats (Rajya Sabha constituency) in Maharashtra.

**S15. Ans.(d)**

**Sol.** Thiamine (Vitamin B<sub>1</sub>) is a water-soluble vitamin that is necessary for carbohydrate and amino acid metabolism.

**S16. Ans.(b)**

**Sol.** Adrenaline is commonly known as the 'fight or flight hormone'. Adrenaline is a hormone released from the adrenal glands .

**S17. Ans.(a)**

**Sol.** Platelets are rapidly decreased due to dengue fever. These are important to prevent more bleeding in body. So due to decreasing level of platelets the patient suffers from an excess of internal bleeding.

**S18. Ans.(b)**

**Sol.** Ghatampur Thermal Power Station is an upcoming coal-based thermal power plant located in Ghatampur in Kanpur district, Uttar Pradesh.

**S19. Ans.(b)**

**Sol.** Natural Gas is a conventional source of energy and not a non-conventional source of energy.

**S20. Ans.(b)**

**Sol.** Alpha particles made of 2 protons and 2 neutrons and they have low penetrating power.

**S21. Ans.(d)**

**Sol.** The first Portuguese reached India on 20 May 1498 when Vasco da Gama reached Calicut on Malabar Coast. English reached India after Portuguese.

**S22. Ans.(a)**

**Sol.** Vasco da Gama, discoverer of the sea route to India (1498), established the first Portuguese factory there in 1502, and the Portuguese viceroy Afonso de Albuquerque built the first European fort in India there in 1503.

**S23. Ans.(a)**

**Sol.** Chauth was a regular tax or tribute imposed, from early 18th century, by the Maratha Empire in India. It was an annual tax nominally levied at 25% on revenue or produce.

**S24. Ans.(c)**

**Sol.** The Kovvada Nuclear Park project is proposed to be setup in Andhra Pradesh.

**S25. Ans.(c)**

**Sol.** Molten rock below the surface of the earth is called Magma.

**S26. Ans.(d)**

**Sol.** The second largest gland in human body is pancreas.

**S27. Ans.(a)**

**Sol.** *Annona Squamosa* is the scientific name of Sugar-apple or sweetsop or Custard apple.

**S28. Ans.(c)**

**Sol.** The formal introduction of Binomial Nomenclature system of naming species is credited to Carl Linnaeus.

**S29. Ans.(c)**

**Sol.** Carnotite, a potassium uranium vanadate, is the most important of the secondary uranium ore minerals, having provided possibly 90 percent of the uranium production from secondary deposits.

**S30. Ans.(a)**

**Sol.** Acetic acid ( $\text{CH}_3\text{COOH}$ ) also called ethanoic acid, the most important of the carboxylic acids. Acetic acid is also known as vinegar.

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