- 1. Consider the following statements regarding the International Renewable Energy Agency (IRENA):
 - 1. A state should be a member of the United Nations to gain IRENA membership.
 - 2. The main institutional governing body of the IRENA is the supreme Council which includes delegates only from the P5 Countries.
 - 3. The Global Commission on the Geopolitics of Energy Transformation was launched by IRENA.

Which of the statements given above is/are correct?

a) 2 only

b) 1 and 2 only

c) 1 and 3 only

d) 1, 2 and 3

- 2. With reference to Aeroponics, Consider the following statements:
 - 1. In Aeroponic system, the roots are held in a soilless growing medium, such as coco coir, over which nutrient-laden water is periodically pumped.
 - 2. Aeroponic system is a closed loop system, using 95% less water than field farming and 40% less than hydroponics.

Which of the statements given above is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

- d) Neither 1 nor 2
- 3. Which of the following Bioremediation Technologies is/are correctly matched?
 - 1. Bioventing Addition of Bacterial cultures to a contaminated medium.
 - 2. Bioaugmentation Method of treating contaminated soils by drawing oxygen through the soil.
 - 3. Biosparging The injection of air under pressure can enhance biological degradation. Select the correct answer using the codes given below:

a) 3 only

b) 2 and 3 only

- 4. Which of the following statements is/are NOT CORRECT regarding Development of Solar Parks and Ultra Mega Solar Power Projects Scheme?
 - 1. This scheme supports only thoe States/UTs which has power deficit in setting up solar parks.
 - 2. The implementing agency is of this scheme is Solar Power Park Developer (SPPD).

Select the correct answer using the code given below:

a) 1 only

b) 2 only

c) Both 1 and 2

- d) Neither 1 nor 2
- Consider the following statements with respect to United Nations Convention to Combat Desertification (UNCCD):
 - 1. It is the only internationally legally binding framework set up to address the problem of desertification.
 - 2. The Convention addresses specifically the arid, semi-arid and dry sub-humid areas.
 - 3. UNCCD collaborates with the Convention on Biological Diversity (CBD) and the United Nations Framework Convention on Climate Change (UNFCCC).

Which of the statements given above is/are correct?

a) 1 only

b) 1 and 2 only

c) 2 and 3 only

- d) 1, 2 and 3
- 6. Bhopal gas tragedy has been one of the most deadliest industrial hazards in the history of India. Which of the following gas was released causing the disaster?
 - a) Potassium cyanide
 - b) Potassium isocyanate
 - c) Methyl isocyanate
 - d) Phosgene
- 7. The release of ballast water at the port is considered to be a big ecological hazard because:
 - a) It increases the temperature of the coast by several degrees.
 - b) It causes heavy metal poisoning.
 - c) It is responsible for transporting alien species to new ecosystems.
 - d) It reduces the dissolved oxygen in the ocean water.

- 8. The government has constituted a committee to investigate into illegal cultivation of HT cotton in four states. The HT of HT cotton stands for
 - a) Hybrid transform

b) Herbal treatment

c) Herbicide tolerant

- d) High Tech
- 9. Which of the following traits should a waste material show to be categorized under Hazardous waste?
 - 1. Ignitability
 - 2. Reactivity
 - 3. Corrosivity
 - 4. Toxicity

Select the correct answer using the code given below:

a) 1 and 2 only

b) 3 and 4 only

c) 1, 3 and 4 only

d) 1, 2, 3 and 4.

- 10. Consider the following statements.
 - 1. An aerosol is a suspension of fine solid particles or liquid droplets, in air or another gas.
 - 2. Examples of anthropogenic aerosols are fog, dust, forest exudates and geyser steam.
 - 3. Examples of natural aerosols are haze, particulate air pollutants and smoke.
 - 4. Aerosol does not have any impact on cloud formations.

Which of the above statements is/are correct?

a) 1 only c) 4 only

b) 2 and 3 only

d) 1, 2, 3 and 4

- 11. Consider the following statements:
 - 1. When the light is reflected from a surface, the angle of incidence is generally equal to the angle of reflection.
 - 2. laws of reflection are applicable to all types of reflecting surfaces except spherical surfaces UPSC/OPSC Which of the statements given above is/are NOT CORRECT?
 - a) 1 only

b) 2 only

c) Both 1 and 2

- d) Neither 1 nor 2
- 12. Consider the following statements regarding formation of image by a plane mirror:
 - 1. Image formed by a plane mirror is always virtual and erect.
 - The image formed is as far behind the mirror as the object is in front of it.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 13. Consider the following statements:
 - 1. Conventionally, in an electric circuit the direction of electric current is taken as the same direction of the flow of electrons.
 - 2. Electric current is expressed by the amount of charge flowing through a particular area in unit

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 14. Consider the following statements:
 - 1. The electrons are able to travel through a perfect solid crystal smoothly.
 - 2. The motion of electrons in a conductor is very different from that of charges in empty space.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

- 15. Consider the following statements:
 - 1. Magnetic field is a quantity that has direction but not magnitude.
 - 2. The relative strength of the magnetic field is shown by the degree of closeness of the field

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 16. Factors that affect the salinity of the ocean waters are
 - a) Wind and Ocean Currents only
 - b) Wind, Ocean Currents and Fresh Water flow only
 - c) Ocean Currents and Fresh Water flow only

d) Wind, Ocean Currents, Fresh Water flow and Evaporation and Precipitation

- 17. Which of the following factors influence the ocean currents
 - 1. Rotation of the Earth
 - 2. Revolution of the Earth
 - 3. Air Pressure and Wind
 - 4. Density of the Ocean Water

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 1 and 3 only
- c) 1, 2 and 3 only
- d) 1, 3 and 4 only
- 18. Consider the following statements
 - 1. The shallowest part of the ocean is continental slope which shows an average slope gradient Exclusive Coaching for UPSC of 1° or even less
 - 2. Deep sea plains are steeply sloping areas of the ocean basins.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 19. Consider the following statements
 - 1. The North Sea, in spite of its location in higher latitudes, records higher salinity due to more saline water brought by the North Atlantic Drift.
 - 2. Baltic Sea, records low salinity due to influx of River waters in large quantity.
 - 3. The Mediterranean Sea, records higher salinity due to high evaporation.
 - 4. In Bay of Bengal, the low salinity trend is observed due to influx of River water by the River Ganga.

Which of the statements given above is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1, 2 and 3 only
- d) 1, 2, 3 and 4
- 20. The size and shape of the Waves reveal the origin the wave. Consider the following correlations in this regard:
 - 1. Slow and steady waves originate from faraway places, possibly from another hemisphere.
 - 2. Steep waves are fairly young ones and are probably formed by local wind.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

- 21. Consider the following statements with regard to Neap Tide:
 - 1. It occurs when the Earth, Sun and Moon are aligned.
 - 2. Results in greatest variation between high and low tides.
 - 3. Neap tides occur during the first and third quarter moon, when the moon appears "half full." Which of the statements given above is/are correct?
 - a) 1 only
 - b) 3 only
 - c) 1 and 2 only
 - d) 1, 2 and 3
- 22. Which of the following landforms are formed by the erosional action of Glaciers?
 - 1. Fiords
 - 2. Areti
 - 3. Cirque
 - 4. V − shape Valley
 - 5. Moraines

Select the code from following:

- a) 1, 2 and 3 only
- b) 2, 3 and 4 only
- c) 2, 3 and 5 only
- d) All of the above
- 23. Consider the following statements.
 - 1. Wular Lake (Jammu & Kashmir) is the largest freshwater lake in India, formed by tectonic activity.
 - 2. Lonar in Maharashtra is a volcanic lake.
 - 3. Lake Chilka is an erosional lake.

Which of the above statements is/are correct?

a) 3 only

- b) 1 and 2 only
- c) 1 and 3 only
- d) 1, 2 and 3
- 24. Consider the following statements.
- Coaching for UPSC/OPSC 1. The lakes formed along rift valleys are deep, narrow and very long.
 - Water collects in troughs (Valley in the rift) and their floors are often below sea level.

Which of the above statements is/are NOT CORRECT?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 25. Which of the below given are conditions that favour the formation of deltas?
 - 1. Shallow sea, adjoining the delta
 - 2. Strong current at the river mouth which leads to formation of tides
 - 3. Active vertical and lateral erosion in the lower course of the river to supply large amount of sediments

Choose the correct answer using the code below:

- a) 1 only
- b) 3 only
- c) 2 and 3 only
- d) 1 and 2 only