

**Q.1) The organic deposits in the ocean are called 'Oozes'. Consider the following statements regarding the oozes:**

1. The 'Oozes' can be classified as Calcareous and Siliceous.
2. Calcareous oozes are not found below 1000m.
3. Radiolarian and Diatoms are types of calcareous oozes.

**Which of the above statements are incorrect?**

- a) 1 only
- b) 1 and 2
- c) 2 and 3
- d) None of the above

**Q.1) Solution (c)**

Oozes are broadly classified as calcareous and siliceous. Calcareous oozes are found up to the depth of 4000m.

Calcareous oozes are further classified into Pteropod and Globigerina.

Siliceous oozes are classified as Radiolarian and diatom.

**Q.2) Which of the following statements correctly defines 'Tektites'?**

- a) They are extra terrestrial glass like ocean deposits.
- b) They are the waves which make navigation possible in shallow rivers during a high tide.
- c) They are large weeds floating on the ocean surface.
- d) The fluorescence of the phytoplankton in the ocean is called 'tektites'.

**Q.2) Solution (a)**

Cosmogenous sediments, which are of extraterrestrial origin, enter the earth's high atmosphere as blazing meteors or as dust particles. Their rate of accumulation is so slow that they never accumulate as distinct layers. They occur as isolated grains in other sediments. Most of them include translucent oblong glass like particles called 'Tektites'.

**Q.3) Which of the following regions has the maximum volume of the marine sediments?**

- a) Continental Shelves

- b) Continental Slopes
- c) Continental Rises
- d) Deep Ocean Floors

**Q.3) Solution (b)**

Continental Shelves - 15%

Continental Slopes - 41%

Continental Rises - 31%

Deep Ocean Floors – 13%

**Q.4) Coral Reefs are referred to as ‘the rainforests of the sea’ because:**

- a) They generate an equal amount of oxygen.
- b) They are formed with lush green herbs which do not shed their leaves.
- c) They harbor a rich diversity of life.
- d) All of the above

**Q.4) Solution (c)**

Self explanatory

**Q.5) In which of the following places, corals are less likely to be found?**

1. At the mouth of a river
2. Near turbidity currents
3. In abyssal plain with calm water

**Select the code from below:**

- a) 1 and 2
- b) 2 only
- c) 2 and 3
- d) All of the above

**Q.5) Solution (d)**

The ideal conditions for corals to thrive:

Temperature around 21°C.

Salinity around 35 parts per thousand that's why they are not found at the mouth of a river as fresh water decreases the salinity.

The water needs to be clear so that proper sunlight can penetrate that's why they are not found near turbidity currents and abyssal plain.

**Q.6) Consider the following statements:**

1. Ocean Currents and tides are similar phenomenon.
2. The driving force for ocean currents is gravitational pull of the moon.

**Which of the above statements are correct?**

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

**Q.6) Solution (d)**

Ocean currents and Tides are totally different phenomenon.

The driving force for tides is gravitational pull of moon and sun.

**Q.7) Consider the following statements regarding Ocean Salinity:**

1. Horizontal distribution of salinity is shown by Isohalines which are imaginary lines connecting the areas of similar salinity.
2. Due to high temperature, areas on the equator have the highest salinity.

**Which of the above statements are correct?**

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

**Q.7) Solution (a)**

Areas near the tropics have the highest salinity. The salinity decreases as we move towards the equator due to high precipitation.

**Q.8) Consider the following statements:**

1. The salinity budget in ocean is not balanced, as salinity is gradually increasing.
2. The Thermo-Haline diagram (T-S diagram) helps to visualize the layering of water masses.

**Which of the above statements are correct?**

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

**Q.8) Solution (b)**

The salinity budget of the ocean is a balanced one, i.e., the amount of salinity added into the ocean is equal to the salinity lost or extracted by man, and consumed by marine plants, animals, and microorganisms.

**Q.9) Which of the following statements correctly explains 'Endorheic' basin?**

- a) It is a closed drainage basin that retains water and allows no outflow to other external bodies of water.
- b) It is an underground water basin which is not accessible to humans.
- c) It is a trough inside a sea.
- d) Seas which are separated from an ocean by a submarine ridge is called an 'Endorheic' Basin.

**Q.9) Solution (a)**

An Endorheic Basin is a closed drainage basin that retains water and allows no outflow to other external bodies of water, such as rivers or oceans, but converges instead into lakes or swamps, permanent or seasonal.

**Q.10) Which of the following seas are not landlocked?**

1. Greenland sea
2. Timor Sea
3. Aral sea
4. Arafura sea

**Select the code from below:**

- a) 1,2 and 3
- b) 2,3 and 4
- c) 1,2 and 4
- d) All of the above

**Q.10) Solution (c)**

Aral Sea is a land locked sea between Kazakistan and Uzbekistan.

**Q.11) In which of the following situations an Oceanic Trench is formed?**

1. Oceanic- Oceanic Plate convergence
2. Oceanic- Continental Plate Convergence
3. Oceanic- Oceanic Plate Divergence
4. Continental- Continental Plate Convergence

**Select the code from below:**

- a) 1 and 2
- b) 1,2 and 4
- c) 2 only
- d) All of the above

**Q.11) Solution (a)**

An oceanic trench is formed where a denser Oceanic plates gets subducted under a less dense Continental or Oceanic plate. Some good examples of Trenches are Mariana Trech, Aleutian trench etc.

**Q.12) Which of the following statements are correct about tides?**

1. Neap tide has maximum range of tide.
2. Spring tide occurs when sun, moon and earth are in a straight line.
3. Neap tide occurs when moon and sun are perpendicular to each other.

4. Time between the high tide and low tide, when the water level is falling, is called ebb.

**Select the code from the following:**

- a) 1 and 2
- b) 2,3 and 4
- c) 1 and 4
- d) All of the above

**Q.12) Solution (b)**

Spring Tide has the maximum range of tide.

**Q.13) A narrow stretch of water connecting two seas is called:**

- a) Peninsula
- b) Isthamus
- c) Strait
- d) Gulf

**Q.13) Solution (c)**

A Strait is a narrow passage of water connecting two seas or two other large areas of water.

**Q.14) Consider the following statements regarding 'Sargasso' Sea:**

- 1. It is a region trapped in a gyre in the middle of Pacific Ocean
- 2. It is the only sea on earth which has no coastline.
- 3. It is named after a common fish 'Sargassum' which is endemic to this area and is found in abundance.

**Which of the above statements are incorrect?**

- a) 3 only
- b) 2 only
- c) 1 and 3
- d) None of the above

**Q.14) Solution (c)**

The Sargasso Sea, located entirely within the Atlantic Ocean, is the only *sea* without a land boundary. Mats of free-floating sargassum, a common seaweed found in the Sargasso Sea, provide shelter and habitat to many animals.

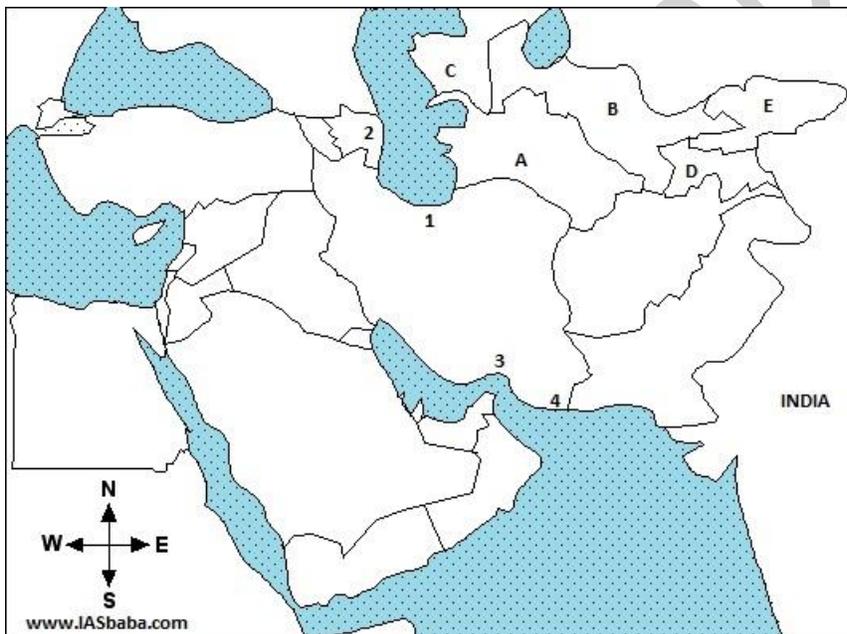
**Q.15) Tsunamis are the waves generated by:**

- a) Moon's Pull
- b) Tropical Cyclones
- c) Earthquakes
- d) Cloud bursts

**Q.15) Solution (c)**

Direct Question

**Consider the map given below and answer the following questions (Q.16) and (Q.17):**



**Q.16) Four very important ports – are marked as 1, 2, 3 and 4 – Identify them:**

- a) 1. Bandar-e-‘Abbas
- 2. Amol
- 3. Baku
- 4. Chabahar

- b) 1. Baku  
2. Amol  
3. Bandar-e-'Abbas  
4. Chabahar
- c) 1. Baku  
2. Amol  
3. Chabahar  
4. Bandar-e-'Abbas
- d) 1. Amol  
2. Baku  
3. Bandar-e-'Abbas  
4. Chabahar

**Q.16) Solution (d)**



**Q.17) Five independent Central Asian Countries are marked as A, B, C, D and E – Identify them correctly**

- a) 1. Turkenistan  
2. Uzbekistan

3. Kazakhstan
4. Tajikistan
5. Kyrgystan

- b)
1. Kazakhstan
  2. Uzbekistan
  3. Turkenistan
  4. Kyrgystan
  5. Tajikistan

- c)
1. Turkenistan
  2. Tajikistan
  3. Kazakhstan
  4. Uzbekistan
  5. Kyrgystan

- d)
1. Turkenistan
  2. Tajikistan
  3. Kyrgystan
  4. Uzbekistan
  5. Kazakhstan

**Q.17) Solution (a)**



**Q.18) Consider the following - Io, Europa and Ganymede – What are these?**

- a) Few among the 22 Satellites record launch by ISRO
- b) Examples of cyber espionage attacks – malwares
- c) Examples of chemical warfare gases
- d) Few among the 4 moons of Jupiter

**Q.18) Solution (d)**

Link: <http://www.thehindu.com/sci-tech/science/nasas-juno-mission-sends-first-image-of-jupiter-its-moons/article8843147.ece>

**Q.19) The Canadian Pacific Railway, one of the longest railway lines of the world run from**

- a) Vancouver to St. John's
- b) Seattle to Halifax
- c) Prince Rupert to St. John
- d) Vancouver to Halifax

**Q.19) Solution (a)**

**Fig: Canadian Pacific Railway**



**Q.20) Contemporary use of the term Kurdistan - "Homeland of the Kurds" or "Land of the Kurds"- refers to areas relating to which of the following countries?**

- a) Turkey and Syria
- b) Turkey, Syria and Iraq
- c) Turkey, Syria, Iraq and Iran
- d) Turkey, Syria, Iraq, Iran and Lebanon

**Q.20) Solution (c)**

Kurdistan - "Homeland of the Kurds" or "Land of the Kurds" - is a roughly defined geo cultural region wherein the Kurdish people form a prominent majority population. Kurdistan roughly encompasses the northwestern Zagros and the eastern Taurus mountain ranges.

Contemporary use of the term Kurdistan - "Homeland of the Kurds" or "Land of the Kurds"- refers to areas relating to four countries - Turkey, Syria, Iraq and Iran



**Q.21) Gotipua is a traditional dance form of which of the following states?**

- a) Jharkhand
- b) Odisha
- c) West Bengal
- d) Telangana

**Q.21) Solution (b)**

**Q.22) Which spacecraft has attained the feat of becoming the first spacecraft to accomplish landing in the outer solar system?**

- a) MOM
- b) MAVEN
- c) CubeSats
- d) Cassini

**Solution (d)**

**Cassini**— an unmanned spacecraft sent to Saturn; Became the first to enter it as well.

**Q.23) Identify the project that envisages the use of helium-filled balloons to provide data connectivity in remote regions—**

- a) Project Balloon
- b) Project Connectivity
- c) Project Loon
- d) Project Bharat Jodo

**Q.23) Solution (c)**

**[Project Loon](#)**

**Q.24) Consider the following—**

- 1. Rice Straw
- 2. Wheat Straw
- 3. Tur
- 4. Bamboo

**Which of the following material/s mentioned above can be used to make ethanol?**

- a) Only 1
- b) 1, 2 and 4
- c) 1, 2 and 3
- d) Only 1 and 4

**Q.24) Solution (b)**

Making ethanol from bamboo is a very common process in the North-East India.

**Q.25) Which Ministry is responsible for implementing the Interest Subvention Scheme?**

- a) Ministry of Finance
- b) Ministry of New & Renewable Energy
- c) Ministry of Agriculture
- d) Ministry of Environment and Forest and Climate Change

**Q.25) Solution (c)**

It was earlier implemented by the Ministry of Finance.

**Interest Subvention Scheme**

- **How much:** 5% per annum to all farmers
- **For:** Short term crop loan
- **Duration:** up to 1 year
- **Up to:** 3 lakh (2016-17)

- **Providers:** Public & private sector banks + Cooperative Banks + RRBs + NABARD

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