

1. Which of the following are the applications of Indian Regional Navigation Satellite System (IRNSS)?
1. Disaster Management
 2. Vehicle tracking and fleet management
 3. Visual and voice navigation for drivers

Select the correct answer using the code given below:

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

2. Consider the following statements:

1. A geosynchronous orbit is a valuable place for monitoring weather, communications and surveillance.
2. The International Telecommunication Union assigns slots for geosynchronous orbit to different countries.

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

3. Which of the following satellite based navigation systems are correctly matched with their countries/regions?

1. GPS (Global Positioning System) : U.S.
2. Glonass : Japan
3. Galileo : Europe
4. Beidou : France

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 2 and 4 only

4. Jal Vikas Marg project on River Ganga is being implemented with the help of which of the following organisations?

- (a) World Bank
- (b) Asian Development
- (c) International Water Association
- (d) WATER.ORG

5. Recently, State Disaster Management Authority of which of the following States has turned to private weather forecasting services in addition to what is being provided by Indian Meteorological Department?

- | | |
|----------------|------------|
| (a) Kerala | (b) Odisha |
| (c) Tamil Nadu | (d) Goa |

6. Directorate of Enforcement is a specialized financial investigation agency under which of the following departments of the Ministry of Finance?
- Department of Expenditure
 - Department of Revenue
 - Department of Financial Services
 - Department of Economic Affairs

7. Which of the following can be used to arrest the growing numbers of invasive 'aphids' in India?
1. Lavender oil
 2. Blood-red ant
 3. Wasps

Select the correct answer using the code given below:

- 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - All of the above
8. Which of the following space missions are correctly matched with their objectives?
1. **Mars Cube One (MarCO):** NASA's first test of CubeSat technology in deep space.
 2. **InSight:** NASA's first-ever mission to study the deep interior of Mars.

Select the correct answer using the code given below:

- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
9. Which of the following statements is true in the context of 'Pacific Partnership' which was recently in news?
- It is an organisation led by Japan to ensure free use of sea lanes across the South China Sea.
 - It is an economic grouping of Pacific Rim countries excluding U.S.
 - It is one of the largest annual multilateral disaster response preparedness mission.
 - None of these.
10. Which type of volcanic eruptions have caused Deccan Trap formations?
- Shield
 - Flood
 - Composite
 - Caldera

11. Arrange the following countries from north to south:

1. Panama
2. Guatemala
3. Peru

Select the correct answer using the code given below:

- | | |
|-----------|-----------|
| (a) 1-2-3 | (b) 1-3-2 |
| (c) 2-3-1 | (d) 2-1-3 |

12. Island of Socotra — a UNESCO world Heritage Site was recently in news due to deployment of troops. This island belongs to:
- Iran
 - Nigeria
 - Yemen
 - Somalia
13. Which of the following are correctly matched?
- Hajigak:** An iron ore mine in Afghanistan in which India has stakes.
 - Aynak:** A copper ore mine in Afghanistan in which China is involved.
- Select the correct answer using the code given below:
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
14. Despite being a semi-arid State, the rice cultivation on per hectare basis remains high in Punjab. This is because:
- Less water consuming paddy varieties are grown in the State.
 - State government's robust paddy procurement policy.
 - Farmers' access to highly subsidised power for irrigation.
- Select the correct answer using the code given below:
- 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - All of the above
15. Thalassaemia is one of the most common genetic blood disorder that is prevalent in India. Consider the following statements about the disease:
- It causes low levels of oxygen in the bloodstream.
 - There is still no cure other than a bone marrow transplant.
 - Patients require lifelong blood transfusion and iron chelation therapies.
- Select the correct answer using the code given below:
- 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - All of the above
16. Consider the following statements:
- Micronesia is country in the eastern Pacific Ocean.
 - It is composed of more than 600 islands.
 - Its capital is Palikir which is located on the island of Pohnpei.
- Select the correct answer using the code given below:
- 1 and 2 only
 - 2 and 3 only

- (c) 1 and 3 only
(d) All of the above
17. Which of the following States face severe problems of arsenic contamination?
1. West Bengal
 2. Uttar Pradesh
 3. Jharkhand
 4. Odisha
- Select the correct answer using the code given below:
- (a) 1, 2 and 3 only
(b) 2, 3 and 4 only
(c) 1, 3 and 4 only
(d) All of the above
18. The key difference between a Geosynchronous Orbit and a Geostationary Orbit is:
- (a) A geosynchronous orbit is located at a greater height than a geostationary orbit.
 - (b) A geosynchronous orbit is used for communication while a geostationary orbit is used for weather forecasting.
 - (c) Unlike a geostationary orbit, satellites in a geosynchronous orbit rotate at a speed exactly at the speed of rotation of the Earth on its axis.
 - (d) While the geostationary orbit lies on the same plane as the equator, the geosynchronous orbit has a different inclination.
19. 'Sandboxing' in the context of cyber security is:
- (a) It is a technique to encrypt messages.
 - (b) It is a technique especially designed to deal with 'ransomware' type of threats.
 - (c) It is technique under which a system can only upload and cannot download anything.
 - (d) It is a technique to isolate malware from critical programs on infected devices to provide an extra layer of security.
20. Which one of the following facts was 'not' considered by those while discussing the concept of 'sea floor spreading'?
- (a) Volcanic activity along the mid-oceanic ridges.
 - (b) Stripes of normal and reverse magnetic field observed in rocks of ocean floor.
 - (c) Distribution of fossils in different continents.
 - (d) Age of rocks from the ocean floor.

ANSWER KEYS

01 d 02 c 03 c 04 a 05 a 06 b 07 d 08 c 09 c 10 b
11 d 12 c 13 c 14 b 15 d 16 b 17 d 18 d 19 d 20 c