

GEOGRAPHY

1. In the northern hemisphere, the longest day of the year normally occurs in the :
 - (a) First half of the month of June
 - (b) Second half of the month of June**
 - (c) First half of the month of July
 - (d) Second half of the month of July
2. **With reference to India, Didwana, Kuchaman, Sargol and Khatu are the names of**
 - (a) Glaciers
 - (b) Mangrove areas
 - (c) Ramsar sites
 - (d) Saline lakes**
3. **Siachen Glacier is situated to the**
 - (a) East of Aksai Chin
 - (b) East of Leh
 - (c) North of Gilgit
 - (d) North of Nubra Valley**
4. Consider the following pairs:Sea-Bordering Country
 1. Adriatic Sea Albania
 2. Black Sea Croatia
 3. Caspian Sea Kazakhstan
 4. Mediterranean Sea Morocco
 5. Red Sea Syria

Which of the pairs given above are correctly matched?

 - (a) 1, 2 and 4 only
 - (b) 1, 3 and 4 only**
 - (c) 2 and 5 only
 - (d) 1, 2, 3, 4 and 5
5. Why are dewdrops not formed on a cloudy night?
 - (a) Clouds absorb the radiation released from the Earth's surface.
 - (b) Clouds reflect back the Earth's radiation.**
 - (c) The Earth's surface would have low temperature on cloudy nights.
 - (d) Clouds deflect the blowing wind to ground level.
6. With reference to the management of minor minerals in India, consider the following statements:
 - 1.Sand is a 'minor mineral' according to the prevailing law in the country.
 - 2.State Governments have the power to grant mining leases of minor minerals, but the powers regarding the formation of rules related to the grant of minor minerals lie with the Central Government.
 - 3.State Governments have the power to frame rules to prevent illegal mining of minor minerals.

Which of the statements given above is/are correct?

 - (a) 1 and 3 only**
 - (b) 2 and 3 only
 - (c) 3 only
 - (d) 1, 2 and 3
7. With reference to agricultural soils, consider the following statements:
 1. A high content of organic matter in soil drastically reduces its water holding capacity.
 2. Soil does not play any role in the sulphur cycle.
 3. Irrigation over a period of time can contribute to the salinization of some agricultural lands.

Which of the statements given above is/are correct?

 - (a) 1 and 2 only
 - (b) 3 only**
 - (c) 1 and 3 only
 - (d) 1, 2 and 3
8. **Which one of the following is an artificial lake?**
 - (a) Kodaikanal (Tamil Nadu)**
 - (b) Kolleru (Andhra Pradesh)
 - (c) Nainital (Uttarakhand)
 - (d) Renuka (Himachal Pradesh)
9. **The terms 'Event Horizon', 'Singularity', 'String Theory' and 'Standard Model' are sometimes seen in the news in the context of**
 - (a) Observation and understanding of the Universe**
 - (b) Study of the solar and the lunar eclipses

- (c) Placing satellites in the orbit of the Earth
(d) Origin and evolution of living organisms on the Earth
10. Which of the following is geographically closest to Great Nicobar?
(a) Sumatra
(b) Borneo
(c) Java
(d) Sri Lanka

SCIENCE AND TECHNOLOGY

- 1) Which of the following statements is/are correct about Pneumococcal disease
1. It is caused by bacteria which can lead to infections in the lungs, blood, and brain.
2. It causes health problems in children younger than 5 years of age.
Select the correct answers using the codes given below
a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2
2) Consider the following statements with respect to Triclosan
1. It is an antibacterial and anti-fungal agent that slows or stops the growth of germs such as bacteria and mildew.
2. It is a broad-spectrum antimicrobial agent that is frequently used in preserved foods.

Which of the above statements is/are correct?

- a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2
3) Consider the following statements with respect to Innate Immunity
1. It is a type of immunity which is characterized by memory that is developed when immune system encounters a pathogen.
2. Acid in the stomach, saliva in the mouth, tears from eyes-are examples of barriers of innate immunity.

Which of the above statements is/are correct?

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

4. Consider the following statements:

1. The image formed by a plane mirror is always virtual and erect.
2. An image formed by a convex mirror is always virtual, erect and diminished.

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

5. Which of the following functions in plants is/are done through transpiration?

1. supplies water for photosynthesis.
2. transports minerals from the soil to all parts of the plant.
3. maintains the shape and structure of the plants by keeping cells turgid.

Select the correct answer using the code given below:

- A. 1 only
B. 1 and 2 only
C. 2 and 3 only
D. 1, 2 and 3

6. Arrange the following sources of energy in the increasing order of their calorific value:

1. Coal
2. Petrol
3. LPG
4. CNG
5. Hydrogen

Select the correct answer using the code given below:

- A. 1, 2, 3, 4 and 5
B. 1, 2, 4, 3 and 5
C. 5, 4, 3, 2 and 1
D. 1, 4, 3, 2 and 5

7. Consider the statements with respect to Candida Auris

1. It is a bacterial diseases which is mostly likely spread directly from person to person.
2. It can cause many different types of infections such as bloodstream infection, wound infection

Which of the above statements is/are correct?

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

8. Consider the following statements with respect to Tetanus

1. Tetanus is an infection caused by bacteria called Clostridium tetani.
2. It often causes a person's neck and jaw muscles to lock.

Which of the above statements is/are correct?

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

9. Consider the following statements:

1. The ceiling fan moves in a periodic motion
2. The falling of a stone when thrown up is rectilinear motion.

Which of the above statements is/are correct?

- A. 1 only
- B. 2 only**
- C. Both 1 and 2
- D. Neither 1 nor 2

10. Which of the following are uses of baking soda?

1. Treat heartburn
2. Mouthwash
3. Soothe canker sores
4. Eliminating sweat smell

Select the correct answer using the code given below:

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

CURRENT AFFAIRS

1. SPARSH portal recently seen in the news ,it is related to which of the following?

- (a) Women Empowerment
- (b) Skill Development
- (c) Space Research
- (d) Pension sanctioning**

2. Shigella recently seen in the news, it is related to

- (a) Viruses
- (b) Bacteria**
- (c) Fungi
- (d) Parasites

3. With reference to Shanghai Cooperation Organization, consider the following statements:

1. India became a member of SCO in 2017.
2. Turkmenistan has been a founding member.
3. The SCO's official languages are French and Chinese.

Which of the statements given above is/are correct?

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

4. Consider the following statements

1. Switzerland is the topmost FDI investor in India.
2. Maharashtra receives the highest FDI equity inflows.
3. Currently, 100% FDI in the Insurance Sector is allowed under the automatic route.

Which of the following statements is/are correct?

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

5. With reference to Aadhaar, consider the following statements:

1. The Unique Identification Authority of India (UIDAI), an executive body, was created to issue Unique Identification numbers (UID), named as "Aadhaar".
2. Only the last 6 digits of the Aadhaar Number are visible in a Masked Aadhaar card.

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**



VANIK-ias
Exclusive Coaching for UPSC/OPSC