

1. Consider the following statements:

1. The Shanghai Cooperation Organisation is an intergovernmental international permanent organization.
2. China, Russia, and India are founding members of Shanghai Cooperation Organisation.

Which of the above statements is/are correct?

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

2. With reference to EOS-06 satellite consider the following

1. The EOS-06 third generation satellite in the Oceansat series.
2. The EOS-06 is envisaged to observe ocean color data, sea surface temperature and wind vector data to use in Oceanography, climatic and meteorological applications

Choose the correct statement/s using the codes given below?

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

3. Consider the following statements about rare disease

1. It is also known as Orphan Disease, affects only a small number of people
2. Most of the rare diseases are genetic in origin and so disproportionately impact children.
3. 'Matchmaker Exchange', is a platform launched by India to share rare disease data.

Which of the above statements is/are correct?

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

4. With reference to solar power production in India, consider the following statements:

1. India is the third largest in the world in the manufacture of silicon wafers used in photovoltaic units.
2. The solar power tariffs are determined by the Solar Energy Corporation of India.

3. India's solar PV installations are dominated by crystalline silicon (c-Si) technology.

Which of the statements given above is/are correct?

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

5. With reference to the New India Literacy Programme, consider the following statements:

1. It aims to support the States and Union Territories in promoting literacy among non-literates in the age group of 25 and above.
2. It is a Centrally Sponsored Scheme.

Which of the above statement/s is/are not correct?

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

6. With reference to organic farming in India, consider the following statements:

1. 'The National Programme for Organic Production' (NPOP) is operated under the guidelines and directions of the Union Ministry of Rural Development.
2. 'The Agricultural and Processed Food Products Export Development Authority' (APEDA) functions as the secretariat for the implementation of NPOP.

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

7. Consider the following statement with reference to Arth Ganga project

1. Arth Ganga focuses on the sustainable development of the Ganga and its surrounding areas, by focusing on economic activities related to the river.
2. Under Arth Ganga, the government is working on six verticals which include Zero Budget Natural Farming on 10 km on either side of the river and the promotion of cow dung as fertiliser through the GOBARdhan scheme.

Which of the above statement/s is/are correct?

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

History

8. Consider the following statements:

1. At the time of independence, the Government of India followed the calendar based on Saka era.
2. The National Calendar commenced on Chitra 1 Saka, 1879 corresponding to March 22, 1957 AD.

Which of the statements given above is/are correct ?

- (a) Only 1
- (b) Only 2**
- (c) Both 1 and 2
- (d) Neither 1 nor 2.

9. Which one of the following is the correct chronological order of the freedom movements of India ?

- (a) Quit India Movement, Non-Cooperation Movement, Civil Disobedience Movement
- (b) Non-cooperation Movement, Civil Disobedience Movement, Quit India Movement**
- (c) Quit India Movement, Civil Disobedience Movement, Non-Cooperation Movement
- (d) Non-Cooperation Movement-Quit India Movement Civil Disobedience Movement.

10. The 'Arthashastra' is a treatise on which one of the following ?

- (a) Economics
- (b) Environment
- (c) Political Philosophy**
- (d) Religion in Administration

11. Arrange the following in chronological order

1. Partition of Bengal
2. Chauri-Chaura Incident
3. First Round Table Conference

Codes:

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

12. Which of the following is/are the feature(s) of the Brahmadeya Grants during c 600 – 1200 AD ?

1. Their creation meant a renunciation of actual or potential sources of revenue by the State.
2. The grants could vary from a small plot to several villages.
3. Most grants were made in unsettled areas.

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

13. Which of the following statements about Sir Syed Ahmed Khan is/are correct ?

1. He argued that India was a federation of ethnic communities based on common descent.
2. His philosophy was very similar to that of the Indian National Congress
3. He imagined India as a Nation State based on individual citizen's rights.
4. The curriculum at the Mohammedan Anglo Oriental College blended Muslim theology and European empiricism.

Select the correct answer using the code given below:

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

14. Consider the following statement:

"A sound body means one which bends itself to the spirit and is always a ready instrument at its service".

The above statement is attributed to

- (a) Sardar Patel
- (b) Winston Churchill
- (c) Mahatma Gandhi**
- (d) Baden-Powell.

15. The idea of 'Farr-i Izadi', on which the Mughal kingship was based, was first developed by which one of the following Sufi saints ?

- (a) Shihabuddin Suhrawardi**
- (b) Nizamuddin Auliya
- (c) Ibn al-Arabi
- (d) Bayazid Bistami

16. Which river is praised in the fifth century Tamil epic, *Silappadikaram* ?

- (a) Cauvery**

- (b) Godavari
(c) Saraswati
(d) Ganges
17. Match list – I with List – II and select the correct answer using the code given below the Lists:

List – I (Harappan Site)	List – II (Modern Name)
A. Dholavira	1. Saurashtra
B. Rakhigarhi	2. Hisar
C. Bhirrana	3. Kadir Island
D. Bhogavo	4. Haryana

- (a) A – 1, B – 4, C – 2, D – 3.
(b) A – 1, B – 2, C – 4, D – 3.
(c) A – 3, B – 2, C – 4, D – 1.
(d) A – 3, B – 4, C – 2, D – 1.
18. The following questions consist of two statement, **Statement-I and Statement – II**. You are to examine these two statements carefully and select the answers to these items using the code given below:
Statement I : The twelfth century witnessed the emergence of a new movement in Karnataka led by a Brahmana named Basavanna.
Statement II: The Lingayats worshipped Shiva in his manifestation as a Linga.
- (a) Both the statements are individually true and Statement II is the correct explanation of Statement I.
(b) Both the statements are individually true statement II is not the correct explanation of Statement I.
(c) Statement I is true but Statement II is false
(d) Statement I is false but Statement II is true
19. Which of the following statements regarding Permanent Settlement is/are correct ?
- The Permanent Settlement was introduced in parts of the Madras and Bombay Presidencies.
 - The Permanent Settlement created a new class of landlords with hereditary rights on land
 - The Landlords created by the Permanent Settlement could never be removed under any circumstance.

Select the correct answer using the codes

- given below:
(a) Only 1
(b) Only 2
(c) 2 and 3
(d) 1, 2 and 3.
20. Which one among the following was not a demand of the Prarthana Samaj ?
(a) Women education
(b) Widow remarriage
(c) Raising the age of marriage for boys and girls
(d) Abolition of untouchability
21. The highly polished monolithic Ashokan Pillars were carved out of single pieces of a buff-coloured sandstone, usually mined from the quarries of
(a) Chunar near Mirzapur
(b) Lauriya in Nandangarh
(c) Sarnath near Varanasi
(d) Udayagiri near Bhubaneswar
22. Who among the following is the author of the book, The social Contract ?
(a) Voltaire
(b) Hobbes
(c) Locke
(d) Rousseau.
- General Science**
23. Dirty cloths containing grease and oil stains are cleaned by adding detergents to water. Stains are removed because detergent
(a) reduces drastically the surface tension between water and oil
(b) increase the surface tension between water and oil
(c) increase the viscosity of water and oil
(d) decreases the viscosity in detergent mixed water
24. A brick is thrown vertically from an aircraft flying two kilometers above the earth. The brick will fall with a
(a) constant speed
(b) constant velocity
(c) constant acceleration
(d) constant speed for some time then with constant acceleration as it nears the earth
25. The rusting of iron nail
(a) decreases its weight
(b) increases its weight
(c) does not affect weight but iron is oxidized
(d) does not affect weight but iron is reduced

26. Consider the following statements:

1. The chain reaction process is used in nuclear bombs to release a vast amount of energy, but in nuclear reactors, there is no chain reaction.
2. In a nuclear reactor, the reaction is controlled while in nuclear bombs, the reaction is uncontrolled.
3. In a nuclear reactor, all operating reactors are 'critical', while there is no question of 'criticality' in case of a nuclear bomb.
4. Nuclear reactors do not use moderators, while nuclear bombs use them.

Which of the above statements about operational principles of a nuclear reactor and a nuclear bomb is/are correct ?

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

27. Match list – I with List – II and select the correct answer using the code given below the Lists:

List – I (Element)	List – II (Property / use)
A. Mg	1. Gives red colour to flame
B. Ca	2. Sulphate compound used in medicine to examine the alimentary canal of a patient.
C. Sr	3. Traps the energy of sunlight in photosynthesis
D. Ba	4. Control of muscle contraction

- (a) A – 2, B – 4, C – 1, D – 3.
 (b) A – 2, B – 1, C – 4, D – 3.
 (c) A – 3, B – 4, C – 1, D – 2.
(d) A – 3, B – 1, C – 4, D – 2.

28. Most viruses that infect plants possess

- (a) single stranded DNA
(b) single stranded RNA
 (c) double stranded DNA and RNA
 (d) double stranded RNA only

29. In human body, the cell growth and differentiation are highly controlled and regulated, but in cancer cells

- (a) there is breakdown of these regulatory mechanisms leading the formation of benign and malignant tumors**
 (b) controlled cell division and over production of genetic material occur

- (c) RNA is mutated and produced in less amount
 (d) DNA is mutated and produced in less amount

30. Most antibiotics target bacterial parasites interfering with various factors of growth of metabolism such as

1. synthesis of cell wall
2. bacterial protein Synthesis
3. synthesis of nuclear membrane
4. mitochondrial function

Select the correct answer using the code given below:

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