

1-How much of the total surface area of the moon is never visible from the earth

- (a) 41 per cent
- (b) 47 per cent
- (c) 53 per cent
- (d) 59 per cent

2-What is meant by the eclipse of Moon?

- (a) It occurs when the Earth comes between the Sun and the Moon and the centers of all three are on the same straight line.
- (b) It is path along which the moon revolves.
- (c) For any place, it is the average angle made by a line drawn from the moon to place and horizontal at midnight.
- (d) When the Moon comes between the Sun and the Earth, it causes the shadows of the Moon to fall on Earth.

3- Consider the following statements:

- 1. The albedo of an object determines its visual brightness when viewed with reflected light.
- 2. The albedo of Mercury is much greater than the albedo of the Earth.

Which of the statement(s) given above is/are correct?

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

4. The inexhaustible source of energy of the stars is due to

- (a) decay of radioactive elements.
- (b) conversion of Hydrogen to Helium.
- (c) conversion of Helium to Hydrogen.
- (d) excess of oxygen that helps burning and release of energy.

5. Consider the following statements:

- 1. Only two planets Venus and Uranus revolve around the sun from east to west i.e., clockwise.
- 2. While other planets revolve around the sun from west to east i.e., anti-clockwise.

Which of the above statements is/are correct?

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

6- Scientists have determined the temperature near the Earth's centre 1,000°C hotter than was reported in an experiment run 20 years ago. The actual temperature is?

- (a) 6,000° Celsius
- (b) 5,000° Celsius
- (c) 4,000° Celsius
- (d) None of these

7-Consider the following statements:

1. Our solar system is located in the orion arm of the Milky way galaxy, about two-third of the way out from the centre.
2. The solar system formed from an interstellar cloud of dust and gas or nebulla about 4.6 billion years ago.

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- In which of the following eras the earth was nearly covered with snow and ice?

- (a) Cretaceous Era
- (b) Pliocene Era
- (c) Pleistocene Era
- (d) Tertiary Era

9- Gutenberg discontinuity separates

- (a) Crust from the upper mantle
- (b) Upper mantle from lower mantle

(c) Lower mantle from outer core

(d) Outer core from the inner core

10-Consider the following statements:

1. Since Venus is seen in the East in morning and in the West in evening. It is called 'Morning star' as well as 'Evening star'.

2. The Earth looks blue when seen from the space due to the presence of large amount of water, hence it is called 'Blue Planet'.

Which of the above statements is/are correct?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

11-Consider the following major archaeological sites ranging from the Mesolithic age to the iron age in the Indian subcontinent. Match them with their respective regions in present day India:

1. Koldihwa: Madhya Pradesh

2. Mehrgarh: Haryana

3. Paiyampalli: Tamil Nadu

Select the correct answer using the codes below.

(a) 1 and 2 only

(b) 3 only

(c) 2 and 3 only

(d) 1 only

12- Paleolithic or Old Stone Age sites are widely found in various parts of the Indian subcontinent. These sites are generally located near

(a) Water sources

(b) Deserts

(c) Major urban centres

(d) Mines

13-Which of these ancient scripts generally writes in left to right direction?

- (a) Brahmi
- (b) Kharosthi
- (c) Harappan
- (d) All of the above

14-The taking of Census was regular during the Mauryan period. Consider the following with reference to it.

1. Village officials were to record the caste and occupation of people.
2. Livestock population in each house was tracked.
3. Municipal officials tracked the movement of population both foreign and indigenous.
4. The data collected from official census were cross checked by the spies.

Select the correct answer using the codes below.

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

15-Lauria Nandangarh is famous for

1. A large excavated Stupa belonging to the Ashokan period
2. A monolithic iron pillar of the Mauryan period that was used to propagate Dharma to Sri Lanka

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None

16-Who among the following made very significant contributions in finding the exact value of π (pi)?

- a. Aryabhatta and Madhava
- b. Bhaskaracharya
- c. Budhayana

d. Gyandev and Aryabhatta

17-Bhartrhari, 5th Century CE, is a Sanskrit writer to whom are normally ascribed two influential Sanskrit texts, one of which is Vakyapadiya. It deals with

- (a) Sanskrit grammar and linguistic philosophy
- (b) Social hierarchy in Hinduism
- (c) Divine poetry written by laities
- (d) Theories of creation and dissolution

18- Nyaya can most appropriately be considered as technique of

- (a) Extra-sensory perception
- (b) Out of body experiences
- (c) Logical thinking
- (d) Intuitive Wisdom

19. Consider the following statements.

1. According to Mimamsa philosophy Vedas are eternal and possess all knowledge.
2. Vedanta philosophy denies the existence of the apparent ego.

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None

20-The Neolithic period is followed by Chalcolithic period. In the chalcolithic period, the use of which of the following started?

1. Copper and bronze
2. Technology of smelting metal ore
3. Crafting metal artifacts

Select the correct answer using the codes below.

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

(c) 3 only

(d) 1, 2 and 3

21. With reference to cyber crimes, consider the following statements:

1. Spoofing attacks are designed to gain access to or damage one's computer and gather personal information.

2. The International Telecommunication Union is a UN specialised agency that deals with cyber security issues.

3. India is not a signatory to the Budapest convention on cybercrime.

Which of the statements given above is/are not correct?

(a) 1 only (b) 2 and 3 only

(c) 3 only (d) 1 and 3 only

22. Which of the following statements about Govind Ballabh Pant are correct?

1. He participated in the Non-Cooperation movement as well as Salt march during the Civil Disobedience Movement.

2. He was against a separate electorate for minorities.

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

23. With reference to the International Energy Agency (IEA), consider the following statements:

1. The IEA is an autonomous organisation established in the framework of the Organisation for Economic Cooperation and Development (OECD).

2. The Clean Energy Transitions Programme (CETP) was launched by the IEA in 2017.

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

24. With reference to the appointment of judges in India, consider the following statements:

1. The judges of Supreme Court and High court are appointed on the recommendation of the National Judicial Appointments Commission.

2. The Chief Justice of the High Court is appointed by the president in consultation with the Chief Justice of India and the Governor of the State.

3. On the Presidential reference the individual opinion of Chief Justice of India is final.

Which of the statements given above is/are correct?

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

25. Consider the following statements about India Justice Report 2020:

1. It ranks the states on the basis of Judiciary, Police, Prisons and Legal Aid.
2. Tamil Nadu has the highest percentage of women police officers.
3. Sikkim has the highest percentage of women HC Judges while Bihar has no women judges in High Courts.

Which of the statements given above is/are correct?

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

ANSWER SHEET

| | | | | | |
|---|---|----|---|----|---|
| 1 | A | 10 | C | 19 | C |
| 2 | A | 11 | B | 20 | D |
| 3 | A | 12 | A | 21 | A |
| 4 | B | 13 | A | 22 | C |
| 5 | C | 14 | D | 23 | C |
| 6 | A | 15 | A | 24 | B |
| 7 | C | 16 | A | 25 | D |
| 8 | C | 17 | A | | |
| 9 | C | 18 | C | | |