

## SECTION - A

1. Consider the following statements with regard to the advantages of Biochar
  1. It is a porous material that can help retain water and nutrients in the soil for the plants to take up as they grow
  2. The successful adoption of biochar-making stoves could reduce the rate of deforestation and CO<sub>2</sub> emissions.
  3. It increases N<sub>2</sub>O and CH<sub>4</sub> emissions from soil s.

Which of the statements given above is/are correct?

- (A) 1 and 2                      (B) 2 and 3  
(C) 3 only                        (D) 1 and 3

2. Arrange the following ecosystems in decreasing order of the Albedo values of these ecosystems:

1. Taiga
2. Tropical Evergreen
3. Tropical Deciduous
4. Tundra

- (A) 1, 4, 3, 2                      (B) 4, 1, 3, 2  
(C) 4, 1, 2, 3                      (D) 1, 4, 2, 3

[1]

3. Match the following tribal rebellions with their leaders:

1. Santhal Rebellion 1855	a. Biswas Brothers
2. Kol-Munda Rebellion	b. Gunda Dhur
3. Bastar Rebellion 1910	c. Siddhu Murmu, Kanhu Murmu
4. Indigo Rebellion	d. Buddha Bhagat

(A) I-c, II- d, III-b, IV-a

(B) I-b, II- d, III-a, IV-c

(C) I-a, II-d, III-b, IV-C

(D) I-d, II- b, III-a, IV- c

4. The following is/are correct with regard to Hunter Commission, 1882:

1. It was formed to evaluate the achievements of Wood Dispatch of 1854
2. It recommended English as a medium of instruction for higher studies and vernacular at school level
3. It was formed to study on the problems of Calcutta University

**Code:**

(A) Only 1

(B) Only 2

(C) Both 1 and 2

(D) 1, 2 and 3





10. The 'blandongdiensten' system followed by the Dutch in Java refers to
- (A) A system that allowed people to stay in rent free villages
  - (B) A system which exempted the villagers from rent for providing cows for cultivation work.
  - (C) A system which exempted villagers from rent in exchange for the free labour and supply of buffaloes for transporting timber.
  - (D) A system of taxation imposed on villagers for their welfare.
11. The following is not included in India's Foreign Exchange Reserves
- (A) Foreign currency assets
  - (B) Gold Holdings
  - (C) Loans from the World Bank
  - (D) Special Drawing Rights (SDR)s
12. Which of the following statements explains "carbon fertilization"?
- (A) Increased plant growth due to increased concentration of carbon dioxide in the atmosphere
  - (B) Increased temperature of Earth due to increased concentration of carbon dioxide in the atmosphere
  - (C) Increased acidity of oceans as a result of increased concentration of carbon dioxide in the atmosphere
  - (D) Adaptation of all living beings on Earth to the climate change brought about by the increased concentration of carbon dioxide in the atmosphere .

13. The following is not true about All India Women's Conference:
1. It's first meeting was held at Ferguson College Hall of Puna University
  2. It was registered in 1930 under Societies Registration Act XXI of 1860.
  3. It started a journal *Roshni* in 1941.
  4. The first meeting of AIWC was presided over by the Begum of Bhopal.

**Code:**

- (A) only 1 (B) only 4  
(C) 2 and 4 (D) 1,2 and 4

14. According to Buddhist tradition, \_\_\_\_\_ is a bodhisattva who will appear on Earth in the future, achieve complete enlightenment, and teach the pure dharma.

- (A) Avalokitesvara (B) Lokeswara  
(C) Maitreya (D) Padmapani

15. The following is not true about Lala Lajpat Rai :

1. He wrote biographies of Mazzini, Garibaldi, Shivaji and Shrikrishna.
2. He stayed in America for some time and wrote a travelogue about his experiences.
3. He founded 'Servants of the People' society.
4. He presided over the Indian National Congress Session held in 1919 at Amritsar.

**Code:**

- (A) only 1 (B) only 4  
(C) 2 and 4 (D) 1, 2, and 4

16. Consider the following statements about National Green Tribunal (NGT)
1. The NGT has been established by an Act.
  2. The NGT provides environmental justice and helps reduce the burden of litigation in the higher courts.
  3. Two important acts- Wildlife (Protection) Act, 1972 and Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 have been placed under NGT's jurisdiction.

Which of the statements given above is/are correct?

**Code:**

- (A) 1 only (B) 2 only  
(C) 1 and 2 (D) 2 and 3

17. The following is an umbrella organization for all retail payments in India

- (A) National Payments Corporation of India (NPCI)  
(B) Reserve Banks of India  
(C) National Securities Depository Limited  
(D) Indian Banks' Association

18. A proton is identical to,

- (A) the nucleus of helium (B) the nucleus of hydrogen  
(C) a molecule of helium (D) a molecule of a hydrogen

19. Which of the following statements is/are correct about the Particularly Vulnerable Tribal Groups (PVTG)

1. PVTGs reside in 18 States and one Union Territory.
2. A stagnant or declining population is one of the criteria for determining PVTG status.
3. There are 95 PVTGs officially notified in the country so far.
4. Baiga, Kharia and Raji tribes are included in the list of PVTGs.

**Code:**

- |                |                |
|----------------|----------------|
| (A) 1, 2 and 3 | (B) 1, 2 and 4 |
| (C) 2, 3 and 4 | (D) 1, 3 and 4 |

20. Retributive Justice is primarily concerned with:

- |                        |                            |
|------------------------|----------------------------|
| (A) Redistribution     | (B) Determining Punishment |
| (C) Determining Awards | (D) Social-Justice         |

21. Articles 79-122 of the Indian Constitution deal with :

- (A) Representation of People Act
- (B) Composition and electoral basis of the state legislatures
- (C) Parliament
- (D) Mode of presidential and vice-presidential elections



22. The following is/are true about the National Education Policy (NEP) in India

1. The first Education policy in India was based on the recommendations of the Kothari Commission.
2. ✓ 'Three-language formula' has been crystallised into a policy in an official document for the first time in NEP 2020.
3. 'Operation Blackboard' was launched under the NEP 1986.
4. NEP 2020 seeks to restructure school curricula and pedagogy.

**Code:**

(A) 1, 3 and 4

✓ (B) 1 and 2 only

(C) 1, 2 and 3 only

(D) 4 only

23. The provisions for the delimitation of constituencies, administrative details of the electoral process, and the basis of the electoral system are provided for through the:

- (A) Representation of the Peoples Acts of 1950 and 1951
- (B) Representation of the Peoples Acts of 1952
- (C) Articles 54-71 of the constitution
- (D) Articles 168-193 of the constitution

24. Which state assembly has passed the bill to protect Tangible Heritage?

(A) Assam

(B) Sikkim

(C) Tamil Nadu

(D) Gujarat

25. The Inter-Tropical Convergence Zone is
1. A broad trough of high pressure in equatorial latitudes
  2. A broad trough of low pressure in equatorial latitudes
  3. Northeast and Southeast trade winds converge here
  4. It lies parallel to the equator

**Code:**

- (A) 1 only (B) 2 only  
(C) 1, 2, and 3 (D) 2, 3, and 4

26. The following can be cited as the evidence for the continued expansion of universe?

1. Detection of microwaves in space
2. Observation of redshift phenomenon in space
3. Movement of asteroids in space
4. Occurrence of supernova explosions in space

**Code:**

- (A) I only (B) 2 only  
(C) 1, 2, and 3 (D) 2, 3, and 4

27. Identify the correctly matched pair:

(A)	Puthukkuli Shawls	Maharashtra
(B)	Sujni embroidery	Bihar
(C)	Uppada Jamdani Saris	Karnataka
(D)	Kunbi	Jharkhand

28. PM Kisan Urja Suraksha and Utthan Mahabhiyan launched in 2019 aims to :

1. To enhance water security for farmers through reliable solar power production of total capacity 25.75GW by 2022.
2. To provide additional means of income to the farmers through selling surplus power to DISCOM (Power distribution companies).
3. Setting up of 17.50 lakh solar agriculture pumps of capacity 7.5HP has been proposed under PM-KUSUM.

**Code:**

- (A) 1 only (B) 2 only  
(C) 1,2 and 3 (D) 2 and 3



32. Match the names of the writers in column A with their works, in column B.

Choose the correct answer from the options given below:

A	B
(I) Vishakhadatt.	(a) <i>Rajatarangini</i>
(II) Umaswami.	(b) <i>Mudrarakhasa</i>
(III) Kalhana	(c) <i>Vakrokti jivita</i>
(IV) Kuntaka	(d) <i>Tattvarthasutra</i>

(A) I-c, II-b, III-d, IV-a

(B) I-b, II- d, III-a, IV-c

(C) I-a, II-d, III-b, IV-C

(D) I-d, II-b, III-a, IV-c

33. The Ilbert Bill, introduced in 1883 during the tenure of Viceroy Ripon sought to

(A) Impose restriction to carry arms by Indian

(B) Remove duty on imported cotton

(C) Remove restrictions on trials of Europeans by Indian magistrates

(D) Impose certain restrictions on Indian language newspapers



35. 'Djibouti Code of Conduct (DCOC)', that was seen in news recently, is associated with

- (A) Intellectual Property Rights      (B) Information Technology  
(C) Income Tax      (D) Maritime Affairs

36. Which body has permitted Serum Institute of India to resume COVID-19 vaccine trials?

- (A) Drugs Controller General of India  
 (B) Ministry of Health  
(C) National Pharma Pricing Authority  
(D) Drugs Bureau of India

37. Consider the following with regard to the FELUDA

1. It is linked to seed development
2. It refers to the new MSME definition based on investment and turnover
3. It uses indigenously developed CRISPR gene-editing technology
4. It targets genetic material of viruses that cause COVID-19

Which of the above is/are correct?

**Code:**

- (A) Only 1      (B) Only 2  
(C) 1 and 3      (D) 3 and 4

38. Modern International Law has some distinctive features. The following is/are not a hallmark of modern International law

- |                  |                   |
|------------------|-------------------|
| 1. Reciprocity   | 2. Consent        |
| 3. Fealty to God | 4. Interpretation |

**Code:**

- |            |                   |
|------------|-------------------|
| (A) Only 1 | (B) Only 2        |
| (C) Only 3 | (D) 1, 2, 3 and 4 |

39. The amending power of the Parliament is subject to the fundamental rights enshrined in the Constitution. This is associated with which judgement?

- (A) Golaknath Judgement
- (B) Sankari Prasad Judgement
- (C) Kesavananda Bharati Judgement
- (D) Minerva Mills Judgement

40. The following is/are correct with regard to the General Committee of Public Instructions

- 1. The Governor General in Council had appointed it in 1823
- 2. It was replaced by Council of Education in 1841
- 3. It was chaired by Charles Grant

**Code:**

- |                  |                |
|------------------|----------------|
| (A) Only 1       | (B) Only 2     |
| (C) Both 1 and 2 | (D) 1, 2 and 3 |





44. Which of the following is not true?

1. Lok Sabha exercises more powers on money matters.
2. A bill introduced in Lok Sabha, pending for any reason, lapses when the Lok Sabha dissolves but bills in Rajya Sabha never lapse.
3. It is necessary for both the houses to confirm the emergency proclaimed by the President within six months.
4. The value of the vote of each MLA and each MP is the same for the election of the President.

**Code:**

- |               |             |
|---------------|-------------|
| (A) 3 and 4   | (B) 2 and 3 |
| (C) 1,2 and 3 | (D) Only 3  |

45. Consider the following statements about 'Sustainable Sugarcane Initiative'?

1. Seed cost is very low in this compared to the conventional method of cultivation.
2. Drip irrigation can be practiced very effectively in this.
3. There is no application of chemical/ inorganic fertilizers at all in this.
4. The scope for intercropping is more in this compared to the conventional method of cultivation.

The correct statements are:

- |                     |                     |
|---------------------|---------------------|
| (A) 1 and 3 only    | (B) 2, 3 and 4 only |
| (C) 1, 2 and 4 only | (D) 1, 2, 3 and 4   |

46. Which of the following cyclones hit India in 2019-2020

- |                    |                   |
|--------------------|-------------------|
| 1. Cyclone Amphan  | 2. Cyclone Kyarr  |
| 3. Cyclone Fani    | 4. Cyclone Harold |
| 5. Cyclone Nisarga |                   |

- (A) 1, 2 and 3                      (B) 3 and 4 only  
(C) 1,3 and 5 only                (D) 1, 2, 3 and 5 only

47. The average of 2 numbers is  $xy$ . If one number is  $x$ , the other number is:

- (A)  $y$                                       (B)  $xy-2x$   
(C)  $2xy-x$                               (D)  $2y$

48. Match the following:

1. Dynamo Effect	a. Electrostatics and electrodynamics
2. Doppler effect	b. Thermodynamics
3. Coulomb's Law	c. Earth's main magnetic field
4. Boyle's Law	d. Sound

The correct answer is

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

49. The following is not true about National Rural Employment Guarantee Act
- (A) It was passed in September 2005.
  - (B) It provides 100 days assured employment every year to every rural household in 200 districts
  - (C) It provides 150 days assured employment every year to every rural household in 200 districts
  - (D) If an applicant is not provided employment within fifteen days she/he will be entitled to a daily unemployment allowance.

50. In April, 2019 India test-fired its first Subsonic cruise missile called

- (A) Nirbhay
- (B) BrahMos
- (C) Vaibhav
- (D) Agni

51. 'Beti Bachao Beti Padhao' Scheme launched in 2015 was a joint initiative of

1. Ministry of Women and Child Development
2. Ministry of Human Resource Development
3. Ministry of Health and Family Welfare
4. Ministry of Labour and Employment

**Code:**

- (A) 1 and 4
- (B) 2 and 3
- (C) 1, 2, and 3
- (D) 2, 3, and 4

52. Match the columns

1. Pradhan Mantri Gramodaya Yojana (PMGY)	A It aimed to create self-employment opportunities for educated unemployed youth from rural area and small town.
2 National Food for Work Programme (NFWP)	B Special assistance to states for basic services such as primary education, rural drinking water, rural electrification etc.
3 Rural Employment Generation Programme (REGP)	C anti-poverty scheme for the rural poor, by organizing them into Self Help Groups (SHGs)
4 Swarnajayanti Gram Swarozgar Yojana (SGSY)	D It was launched in 150 of the most backward districts of India with the objective of generating supplementary wage employment.

(A) 1-B, 2-C, 3-A, 4-D

(B) 1-D, 2-A, 3-C, 4-B

(C) 1-B, 2-D, 3-A, 4-C

(D) 1-C, 2-B, 3-D, 4-A,

53. The name of Inayatullah Khan Mashriqi also known by the honorary title Allama Mashriqi is associated with

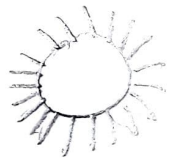
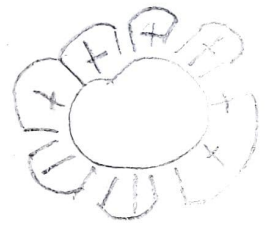
- (A) Khaksar Tehreek (B) Aligarh Movement  
(C) Reshmi Rimal Tehreek (D) None of the Above

54. There are 20 people around a table. Each of them shakes hands with the people to his or her immediate right and left. The number of hand shakes that take place are

- (A) 15 (B) 20  
(C) 25 (D) 30

55. The following statement is correct about fuse wire

- (A) It has high resistance and low melting point  
(B) It has low resistance and high melting point  
(C) It has high resistance and high melting point  
(D) It has low resistance and low melting point



56. The following is correct about Jet streams

1. Easterly jet streams cause tropical depressions during the monsoon
2. They are High Velocity westerly winds
3. They blow through a narrow zone in the upper troposphere
4. They are caused by seasonal reversal of wind direction Code:

- (A) only 1 (B) only 2  
(C) 1,2 and 3 (D) 1,2,3, and 4

57. The following is not correct about 'Open Market Operations' in India
- (A) Use of OMOs as an effective tool in adjusting market liquidity increased after the financial reforms of 1991.
  - (B) It refers to sale and purchase of government securities by RBI.
  - (C) It refers to lending by commercial banks to industry and trade.
  - (D) Repurchase Agreement or REPO is another OMO used by RBI.
58. \_\_\_\_\_ is the oldest scientific department of the Government of India
- (A) DRDO
  - (B) Survey of India
  - (C) Department of Biotechnology
  - (D) India Meteorological Department
59. Match the names of Scientists given in column A with their contributions given in Column B

1. Ernest Rutherford	a. Atomic number as the basis of periodic table
2. J. J. Thomson	b. Concept of nucleus
3. Dalton	c. Discovery of electrons
4. Mosley	d. Atomic Theory 3

The correct answer is

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

60. Which of the following statements is /are true with respect to the flight test of ABHYAS

1. It is designed and developed by Aeronautical Development Establishment (ADE), ISRO
2. It is a High Speed Expendable Aerial Target which offers a realistic threat scenario for practice of weapon systems.
3. It was done from ITR Balasore in Orissa.

**Code:**

(A) only 1

(B) only 2

(c) 2 and 3

(d) Only 3