SECTION - A

1. Consider the following statements with regard to the		sider 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

2. The successful adoption of biochar-making stoves could reduce the rate of deforestation and C0₂ emissions.

3. It increases N₂0 and CH₄ emissions from soil s.

the plants to take up as they grow

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

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. Buddhu Bhagat

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

- 5. Consider the following statements with regard to Goods and Services Tax [GST]
 - 1. Sale and purchase of securities is also governed by GST
 - GST was implemented after the One Hundred and first Amendment of the Constitution of India by the Indian Government
 - 3. GST is a destination based Tax
 - 4. Finance Secretary is the chairperson of the GST council

Which of the above are correct?

Code:

(A) only 1

(B) 2 and 3

(C) Only 3

- (D) 3, and 4
- 6. The objective of the 97th Amendment to the Constitution of India which amended Article 19 (1) (C) and added Part IX B was
 - (A) To extend the reservation of seats for SCs and STs and Anglo-Indians in the Lok Sabha and states assemblies from Sixty years to Seventy years.
 - (B) To encourage economic activities of cooperative societies
 - (C) To give constitutional status to National Commission for Backward Classes
 - (D) To substitute 'Odiya' for 'Oriya'

- 7. It is the duty of the National Commission for Backward Classes
 - To inquire into specific complaints with respect to the deprivation of rights
 and safeguards of the socially and educationally backward classes
 - 2. To present to the Prime Minister, annually and at such other times as the Commission may deem fit, reports upon the working of those safeguards;
 - 3. To investigate and monitor all matters relating to the safeguards provided for the socially and educationally backward classes under the Constitution

(A) only 1

(B) 1 and 2

(C) Only 3

(D) 1 and 3

8. Which of the following quantities is not a vector?

(A) Mass

(B) Displacement

(C) Weight

(D) Acceleration

- 9. The Twelfth Five Year Plan focused on
 - (A) Faster Growth
 - (B) Inclusive Growth
 - (C) Quick and reliable growth
 - (D) Faster, sustainable and more inclusive growth

- 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 Fe	rgusoi	n College Hall of Puna University		
2. It was registered in 1930 under Societies Registration Act XXI						
	3.	It started a journal Roshni in 1941.				
	4.	The first meeting of AIWC was	s presi	ded over by the Begum of Bhopal.		
	Code		,	J. Full		
•	(A)	only 1	(B)	only 4		
	(C)	2 and 4	(D)	1,2 and 4		
14.	Acco	ording to Buddhist tradition,		is a bodhisattva who will appear on		
	Earth	n in the future, achieve complete	enligh	tenment, and teach the pure dharma.		
	(A)	Avalokitesvara	(B)	Lokeswara		
	(C)	Maitreya	(D)	Padmapani		
15. The following is not true about Lala Lajpat Rai:			n. ·			
	1.	He wrote biographies of Mazzini, Garibaldi, Shivaji and Shrikrishna.				
	2.	He stayed in America for so	me tin	ribaldi, Shivaji and Shrikrishna.		
		experiences.	ine tii	ne and wrote a travelogue about his		
	3.	He founded 'Servants of the Pe	ople'	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.
 - 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.

(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.

(A) 1, 3 and 4

(B) 1 and 2 only

(C) $_{\mathscr{S}}$ 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

	The Inter-Tropical Convergence Zone is
25	The Inter-Tropical Convers

- 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

(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 fanners 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

29.	The following is/are not true about National Investigating Agency (NIA)
-----	---	------

- 1. It came into existence by an Act of Parliament in 2008.
- 2. The NIA (Amendment) Bill 2019 empowered NIA to probe terror attacks targeting Indians and Indian interests abroad.
- 3. Offences relating to the smuggling in High-Quality Counterfeit Indian Currency cannot be investigated by NIA.

(A) lonly

(B) 2 only

(C) 1, 2 and 3

(D) 1, 2 and 4

30. Arrange the following in the correct sequence of ecosystems in the order of decreasing productivity

1. Oceans

2. Lakes

3. Grasslands

4. Mangroves

(A) 3, 1, 4, 2

(B) 2, 3, 4, 1

(C) 3, 2, 4, 1

(D) 1, 4, 2, 3

31. A river that originates and ends in the territory of India is:

(A) Brahmaputra

(B) Chambal

(C) Indus

(D) Kosi

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:

Α

В

(I) Vishakhadatt.

(a) Rajatarangini

(II) Umaswami.

(b) Mudrarakshasa

(III) Kalhana

(c) Vakrokti jivita

(IV) Kuntaka

(d) Tattvarthasutra

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

- 34. Consider the following statements regarding the Bills on Agriculture reform passed by the parliament in 2020:
 - 1. Farmer's Produce Trade and Commerce (Promotion and Facilitation) Bill, 2020 aims to create an ecosystem where farmers and traders enjoy the freedom to sell and purchase fam1produce outside registered 'mandis' under states' APMCs.2. The Farmer (Empowerment and Protection) Agreement of Price Assurance and Farm Services Bill, 2020 allows farmers to enter into a contract with agribusiness firms, processors, wholesalers, exporters or large retailers for sale of future fam1ing produce at a pre-agreed price.
 - The Essential Commodities (Amendment) Bill, 2020 provisions to remove commodities like cereals, pulses, oilseeds, onion and potatoes from the list of essential commodities except under "extraordinary circumstances" like war.
 - 4. Fanner's Produce Trade and Commerce (Promotion and Facilitation) Bill, 2020 aims to involve a fixed payment of 6,000 per annum to each farm household with a budgetary outlay of 75,000 crore

Which of the statements given above is/are correct?

(A) 1 and 2

(B) 2, 3 and 4

(C) 1,2 and 3

(D) 3 and 4

35.	'Djibouti Code of Conduct (DCOC)', that was seen in news recently, is associate		as seen in news recently, is associated	
	with			
	(A)	Intellectual Property Rights	(B)	Information Technology
	(C)	Income Tax	(D)	Maritime Affairs
36.	Whic	h body has permitted Serum Ins	stitute (of India to resume COVID-19 vaccine
	trials	?		
	(A)	Drugs Controller General of In	dia	
/	√ (B)	Ministry of Health		
	(C)	National Pharma Pricing Auth	ority	
	(D)	Drugs Bureau of India	¥	
		. ,		
37.	Cons	sider the following with regard to	o the F	ELUDA
	1.	It is linked to seed development	nt	
	2.	It refers to the new MSME de	finition	a based on investment and turnover
	3.	It uses indigenously developed	d CRIS	SPR gene-editing technology
	4.	It targets genetic material of v	iruses	that cause COVID-19
	Whic	ch of the above is/are correct?		
	Code	e:		
	(A)	Only 1	(B)	Only 2
	(C)	1 and 3	(D)	3 and 4

38.	Mode	Modern International Law has some distinctive features. The following is/are not						
		mark of modern International la						
	1.	Reciprocity	2.	Consent				
	3.	Fealty to God	4.	Interpretation				
	Code	Code:						
	(A)	Only 1	(B)	Only 2				
	(C)	Only 3	(D)	1, 2, 3 and 4				
39.	The	amending power of the Parli	ament	is subject to the fundamental rights				
	ensh	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	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.	3. It was chaired by Charles Grant						
	Code:							
	(A)	Only 1	(B)	Only 2				
	(C)	Both 1 and 2	(D)	1, 2 and 3				

- 41. Consider the following statements with regard to State Disaster Response Fund (SDRF)
 - 1. It was constituted under Section 48 (1) (a) of the Disaster Management Act of 2005.
 - 2. The Central government contributes 75% of SDRF allocation for general category states /UTs and 90% for special category states/UTs
 - 3. Recently the limit of using SDRF for COVID_19 specific infrastructure has been increased to 50%.

Which of the above is/are correct?

Code:

(A) 1, 2 and 3

(B) 1 only

(C) 2 only

(D) 1 and 2 only

- 42. The first three-way merger in India's banking sector involved the merger of the following banks
 - (A) Allahabad Bank, Dena Bank, Union Bank
 - (B) Bank of Baroda, Indian Bank, Dena Bank
 - (C) Union Bank, Dena Bank, Vijaya Bank
 - (D) Bank of Baroda, Dena Bank, Vijaya Bank
- 43. Eight years from now, A will be twice as old as he was 6 years ago. What is his present age? $\mathcal{H} = \mathbf{a}$

(A) 4 years ant8

(B) 8 years

(C) 12 years

(D) 20 year

- 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.

(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 Septem	iber 2005.	
	(B)) It provides 100 days	assured emp	loyment every year to every rural
		nouschold in 200 distric	213	
	(C)	It provides 150 days	assured emp	loyment every year to every rural
		household in 200 distric	ets	Tural
	(D)	If an applicant is not pr	ovided emplo	yment within fifteen days she/he will
		be entitled to a daily un		
50.	In A	April, 2019 India test-fired	its first Subso	nic cruise missile called
	(A)		1	BrahMos
	· (C)	Vaibhav	(D)	Agni
			` '/	3
51.	'Beti	Bachao Beti Padhao ' Scl	neme launched	d in 2015 was a joint initiative of
	1.	Ministry of Women and	l Child Develo	opment
	2.	Ministry of Human Res		
	3.	Ministry of Health and		
	4.			re
		Ministry of Labour and	Employment	
	Code	:		
	(A)	land 4	(B)	2 and 3
	(C) _{//}	1, 2, and 3	-	
	4		(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)	В	Special assistance to states for basic services such as primary education, rural drinking water, rural electrification etc.
3	Rural Employment Generation Programme (REGP)	С	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
- (C) 1-B, 2-D, 3-A, 4-C
- (B) 1-D, 2-A, 3-C, 4-B
- (D) 1-C, 2-B, 3-D, 4-A,

The name of Inayatullah Khan Mashriqi also known by the honorary title Allama 53. Mashriqi is associated with (B) / Aligarh Movement Khaksar Tehreek (A) None of the Above (D) Reshmi Rumal Tehreek (C) 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 54. 20 (B) 15 (A) 30 (D) 25 (C) The following statement is correct about fuse wire 55. It has high resistance and low melting point (A) It has low resistance and high melting point (B) It has high resistance and high melting point (C) It has low resistance and low melting point (D) The following is correct about Jet streams 56. Easterly jet streams cause tropical depressions during the monsoon 1. They are High Velocity westerly winds 2. They blow through a narrow zone in the upper troposphere 3. They are caused by seasonal reversal of wind direction Code: 4. (B) only 2 (A) only l 1,2,3, and 4 1,2 and 3 (C) (D) [22]

- 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

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

ABHYAS

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

Code:

only 1 (A)

only 2 (B)

2 and 3 (c)

Only 3 (d)