UPSC, CSE (Prelims)

UPSC CSE (P) Question Papers

(2018)



UPSC Prelims Question Papers 2018



GENERAL STUDIES - I (PRELIMS) - 2018 (A)

1.	Consider	the	following	statements	:

- (1) In the first Lok Sabha, the single largest party in the opposition was the Swatantra Party.
- (2) In the Lok Sabha, a "Leader of the Opposition" was recognised for the first time in 1969.
- (3) In the Lok Sabha, if a party does not have a minimum of 75 members, its leader cannot be recognised as the Leader of the Opposition.

Which of the statements given above is/are correct?

- (a) 1 and 3 only (b) 2 only (c) 2 and 3 only (d) 1, 2 and 3
- 2. Which of the following leaf modifications occur(s) in the desert areas to inhibit water loss?
 - (1) Hard and waxy leaves
 - (2) Tiny leaves
 - (3) Thorns instead of leaves

Select the correct answer using the code given below:

- (a) 2 and 3 only (b) 2 only (c) 3 only (d) 1, 2 and 3
- 3. As per the NSSO 70th Round "Situation Assessment Survey of Agricultural Households", consider the following statements:
 - (1) Rajasthan has the highest percentage share of agricultural households among its rural households.
 - (2) Out of the total agricultural households in the country, a little over 60 percent belong to OBCs.
 - (3) In Kerala, a little over 60 percent of agricultural households reported to have received maximum income from sources other than agricultural activities.

Which of the statements given above is/are correct?

- (a) 2 and 3 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3
- 4. How is the National Green Tribunal (NGT) different from the Central Pollution Control Board (CPCB)?
 - (1) The NGT has been established by an Act whereas the CPCB has been created by an executive order of the Government.
 - (2) The NGT provides environmental justice and helps reduce the burden of litigation in the higher courts whereas the CPCB promotes cleanliness of streams and wells, and aims to improve the quality of air in the country.

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.	Consider	the	following	statements	:

- (1) The Parliament of India can place a particular law in the Ninth Schedule of the Constitution of India.
- (2) The validity of a law placed in the Ninth Schedule cannot be examined by any court and no judgement can be made on it.

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

6. Which one of the following best describes the term "Merchant Discount Rate" sometimes seen in news?

- (a) The incentive given by a bank to a merchant for accepting payments through debit cards pertaining to that bank.
- (b) The amount paid back by banks to their customers when they use debit cards for financial transactions for purchasing goods or services.
- (c) The charge to a merchant by a bank for accepting payments from his customers through the bank's debit cards.
- (d) The incentive given by the Government to merchants for promoting digital payments by their customers through Point of Sale (POS) machines and debit cards.

7. What is/are the consequence/consequences of a country becoming the member of the "Nuclear Suppliers Group'?

- (1) It will have access to the latest and most efficient nuclear technologies.
- (2) It automatically becomes a member of "The Treaty on the Non-Proliferation of Nuclear Weapons (NPT)".

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

8. With reference to India's decision to levy an equalization tax of 6% on online advertisement services offered by non-resident entities, which of the following statements is/are correct?

- (1) It is introduced as a part of the Income Tax Act.
- (2) Non-resident entities that offer advertisement services in India can claim a tax credit in their home country under the "Double Taxation Avoidance Agreements".

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

9. Consider the following statements:

- (1) The Fiscal Responsibility and Budget Management (FRBM) Review Committee Report has recommended a debt to GDP ratio of 60% for the general (combined) government by 2023, comprising 40% for the Central Government and 20% for the State Governments.
- (2) The Central Government has domestic liabilities of 21% of GDP as compared to that of 49% of GDP of the State Governments.
- (3) As per the Constitution of India, it is mandatory for a State to take the Central

(5)

Which of the statements given above is/are correct? (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3 10. **Consider the following statements:** The quantity of imported edible oils is more than the domestic production of edible oils in the last five years. The Government does not impose any customs duty on all the imported edible oils as a (2) special case. 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 11. He wrote biographies of Mazzini, Garibaldi, Shivaji and Shrikrishna; stayed in America for some time, and was also elected to the Central Assembly. He was Aurobindo Ghosh (b) Bipin Chandra Pal (c) Lala Lajpat Rai (d) Motilal Nehru 12. **Consider the following statements:** (1) Aadhaar card can be used as a proof of citizenship or domicile. Once issued, Aadhaar number cannot be deactivated or omitted by the Issuing Authority. 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 13. Which of the following has/have shrunk immensely/dried up in the recent past due to human activities? (1) Aral Sea (2) Black Sea (3) Lake Baikal Select the correct answer using the code given below: (a) 1 only (b) 2 and 3 (c) 2 only (d) 1 and 3 14. "Rule of Law Index" is released by which of the following? (a) Amnesty International International Court of Justice The Office of UN Commissioner for Human Rights World Justice Project 15. Which one of the following links all the ATMs in India? Indian Banks' Association (b) National Securities Depository Limited (a) National Payments Corporation of India (d) Reserve Bank of India 16. **Consider the following statements:** (1) Capital Adequacy Ratio (CAR) is the amount that banks have to maintain in the form of their own funds to offset any loss that banks incur if the account-holders fail to repay dues. (2) CAR is decided by each individual bank.

Government's consent for raising any loan if the former owes any outstanding liabilities

to the latter

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Which of the statements given above is/are correct?

	(a)	1 only (b	o) 2 only	(c)	Both 1 and 2	(d)	Neither 1 nor 2				
17.	The	e identity platform	'Aadhaar' provid	les ope	n "Application	Progra	amming Interface	S			
	(AP	PI _s)". What does it	imply?								
	(1)	It can be integrated into any electronic device.									
	(2)	(2) Online authentication using iris is possible.									
	Wh	ich of the statemer	nts given above is/a	are cor	rect?						
	(a)	1 only (b	o) 2 only	(c)	Both 1 and 2	(d)	Neither 1 nor 2				
18.	Ver	y recently, in whic	h of the following	count	ries have lakhs	of peo	ple either suffere	d			
	fror	n severe famine/ac	cute malnutrition	or died	due to starvat	tion cau	ised by war/ethni	c			
	con	flicts?									
	(a)	Angola and Zamb	ia	(b)	Morocco and T	Tunisia					
	(c)	Venezuela and Co	lombia	(d)	Yemen and So	uth Sud	an				
19.	Reg	garding Wood's Dis	spatch, which of th	e follo	wing statement	s are tr	rue ?				
	(1)	Grants-in-Aid syst	tem was introduced								
	(2)	Establishment of u	universities was rec	ommen	nded.						
	(3)	English as a media	um of instruction at	all lev	els of education	was rec	commended.				
	Sele	ect the correct ansv	wer using the code	given	below:						
	(a)	1 and 2 only (b	and 3 only	(c)	1 and 3 only	(d)	1, 2 and 3				
20.	Wit	th reference to th	e Parliament of	India,	which of the	followi	ng Parliamentar	y			
	Con	nmittees scrutiniz	es and reports t	to the	House wheth	er the	powers to mak	e			
	regi	ulations, rules, sub	-rules, by-laws, etc	c. confe	erred by the Co	nstituti	on or delegated b	y			
		Parliament are be	ing properly exer	cised b	y the Executive	e within	the scope of suc	h			
	dele	egation?									
	(a)		vernment Assuranc	` ′			•				
	(c)	Rules Committee		(d)	Business Advi	sory Co	mmittee				
21.		nsider the following	_								
	(1)	As per the Right to Education (RTE) Act, to be eligible for appointment as a teacher in									
		_	would be required to	_		qualifi	cation laid down b	y			
	(2)		te Council of Teach								
	(2)	-	Act, for teaching p	•							
			y Test conducted in	accord	lance with the N	lational	Council of Teache	r			
	(2)	Education guidelin				4.					
	(3)		an 90% of teacher	educati	on institutions a	are dire	ctly under the Stat	e			
	***	Governments.			40						
		ich of the statemer	S			/ 40	2 1				
	(a)	1 and 2 (b	o) 2 only	(c)	1 and 3	(d)	3 only				

(7)

22.	Coı	nsider the fol	llowing p	airs :								
	Tra	dition			Sta	te						
	(1)	Chapchar K	Lut festiva	ıl -	Miz	oram						
	(2)	Khongjom	Parba bal	lad -	Mai	nipur						
	(3)	Thang-Ta d	ance	-	Sikl	kim						
	Wh	ich of the pa	irs given	above is/ai	re correct?							
	(a)	1 only	(b)	1 and 2	(c)	3 only	(d)	2 and 3				
23.	Cor	Consider the following statements:										
	(1)	(1) The Food Safety and Standards Act, 2006 replaced the Prevention of Food Adulteration Act, 1954										
	(2)		•		•	` '		e charge of Directo				
	XX/ I ₂	General of Health Services in the Union Ministry of Health and Family Welfare. Which of the statements given above is/are correct?										
				_			(A)N	Joithar 1 nor 2				
24.	` /	1 only	()	2 only	` '	Both 1 and 2	` /	Neither 1 nor 2				
24.	The term "two-state solution" is sometimes mentioned in the news in the context of the affairs of											
		China	(b)	Israel	(a)	Iraq	(d)	Yemen				
25.	` /		` '		` '	-	` '					
23.		With reference to the provisions made under the National Food Security Act, 2013, consider the following statements:										
	(1)		_		eategory of	helow noverty 1	ine (RP	I)' only are eligible				
	(1)	(1) The families coming under the category of 'below poverty line (BPL)' only are eligible to receive subsidised food grains.										
	(2)	-										
	(-)	household for the purpose of issuance of a ration card.										
	(3)											
	(-)	calories per day during pregnancy and for six months thereafter.										
	Wh	Which of the statements given above is/are correct?										
		1 and 2		2 only		1 and 3	(d)	3 only				
26.	` /		` '	•	` /		` /	3				
	India enacted The Geographical Indications of Goods (Registration and Protection) Act, 1999 in order to comply with the obligations to											
		ILO		IMF	(c)	UNCTAD	(d)	WTO				
27.	Cor	nsider the fol	lowing st	tatements :								
	(1)	In India, Sta	ate Gover	nments do 1	not have the	e power to auction	on non-	coal mines.				
	(2)	Andhra Pra	desh and	Jharkhand o	do not have	gold mines.						
	(3)	Rajasthan h	as iron o	re mines.								
	Wh	ich of the sta	atements	given abov	e is/are cor	rect?						
		1 and 2		2 only	(c)	1 and 3	(d)	3 only				
28.	Wit	th reference	to digital	payments,	consider tl	ne following sta	tements	s :				
	(1)	BHIM app a	allows the	user to tran	sfer money	to anyone with a	UPI-en	abled bank account				

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	(2)	While a chip-p			factors	of authentication	n, BHI	M app has only two			
	Wh	Which of the statements given above is/are correct?									
	(a)	1 only		2 only		Both 1 and 2	(d)	Neither 1 nor 2			
29.	Am	ong the followi	ng cit	ies, which one l	ies on a	a longitude close	est to t	hat of Delhi ?			
	(a)	Bengaluru	(b)	Hyderabad	(c)	Nagpur	(d)	Pune			
30.	Inte	ernational Lab	our O	rganization's C	onventi	ions 138 and 182	2 are r	elated to			
	(a)	Child labour									
	(b)	Adaptation of	agricu	ltural practices	to globa	l climate change					
	(c)	Regulation of	food p	orices and food s	security						
	(d)	Gender parity	at the	workplace							
31.	Reg	garding Money	Bill, v	which of the fol	lowing	statements is no	t corre	ect?			
	(a)	A bill shall b	e dee	med to be a Mo	oney Bil	ll if it contains	only pr	ovisions relating to			
		imposition, ab	olition	n, remission, alte	eration o	or regulation of a	ny tax.				
	(b)	A Money Bill	has p	rovisions for the	e custod	y of the Consoli	dated l	Fund of India or the			
		Contingency Fund of India.									
	(c)	A Money Bill is concerned with the appropriation of moneys out of the Contingency									
		Fund of India.									
	(d)	A Money Bill deals with the regulation of borrowing of money or giving of any guarantee									
		by the Govern	ment o	of India.							
32.	With reference to the election of the President of India, consider the following statements:										
	(1)	The value of the vote of each MLA varies from State to State.									
	(2)	The value of the vote of MPs of the Lok Sabha is more than the value of the vote of MPs									
		of the Rajya Sabha.									
	Wh	Which of the statements given above is/are correct?									
	(a)	1 only	` /	2 only	` '	Both 1 and 2	` /	Neither 1 nor 2			
33.			-	-		• 0	'Additi	ional Protocol with			
	the 'International Atomic Energy Agency (IAEA)'?										
	(a)	The civilian nuclear reactors come under IAEA safeguards.									
	(b)	The military nuclear installations come under the inspection of IAEA.									
	(c)	The country will have the privilege to buy uranium from the Nuclear Suppliers Group (NSG).									
	(d)	The country a	utoma	tically becomes	a memb	er of the NSG.					
34.	Cor	nsider the follow	wing c	ountries :							
	(1)	Australia	(2)	Canada	(3)	China					
	(4)	India	(5)	Japan	(6)	USA					
	Wh	ich of the abov	e are a	among the 'free	e-trade	partners' of AS	EAN?				
	(a)	1, 2, 4 and 5	(b)	3, 4, 5 and 6	(c)	1,3, 4 and 5	(d)	2, 3, 4 and 6			

	The Unique Academy								
35.	With reference to the "Global Alliance for Climate-Smart Agriculture (GACSA)', which								
	of the following statements is/are correct?								
	(1) GACSA is an outcome of the Climate Summit held in Paris in 2015.								
	(2) Membership of GACSA does not create any binding obligations.								
	(3) India was instrumental in the creation of GACSA.								
	Select the correct answer using the code given below:								
	(a) 1 and 3 only (b) 2 only (c) 2 and 3 only (d) 1, 2 and 3								
26	William of the fellowing in formation in figure of the community of the co								

36. Which of the following is/are the aim/aims of "Digital India" Plan of the Government of India?

- (1) Formation of India's own Internet companies like China did.
- (2) Establish a policy framework to encourage overseas multinational corporations that collect Big Data to build their large data centres within our national geographical boundaries.
- (3) Connect many of our villages to the Internet and bring Wi-Fi to many of our schools, public places and major tourist centres.

Select the correct answer using the code given below:

- (a) 1 and 2 only (b) 3 only (c) 2 and 3 only (d) 1, 2 and 3
- 37. Consider the following pairs:

Towns sometimes mentioned Country in news (1) Aleppo Syria

(1) Aleppo Syria
(2) Kirkuk Yemen
(3) Mosul Palestine
(4) Mazar-i-sharif Afghanistan

Which of the pairs given above are correctly matched?

- (a) 1 and 2 (b) 1 and 4 (c) 2 and 3 (d) 3 and 4
- 38. In the Federation established by The Government of India Act of 1935, residuary powers were given to the
 - (a) Federal Legislature(b) Governor General(c) Provincial Legislature(d) Provincial Governors
- 39. Consider the following statements:
 - (1) The Speaker of the Legislative Assembly shall vacate his/her office if he/she ceases to be a member of the Assembly.
 - (2) Whenever the Legislative Assembly is dissolved, the Speaker shall vacate his/her office immediately.

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

The	The Unique Academy									
40.	Wh	Which one of the following reflects the most appropriate relationship between law and								
	libe	liberty?								
	(a)	If there are more laws, there is less liberty.								
	(b)	If there are no laws, there is no liberty.								
	(c)	If there is liberty, laws have to be made by the people.								
	(d)	If laws are changed too often, liberty is in danger.								
41.	Cor	nsider the following statements:								

- (1) No criminal proceedings shall be instituted against the Governor of a State in any court during his term of office.
- (2) The emoluments and allowances of the Governor of a State shall not be diminished during his term of office.

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
- 42. The well-known painting "Bani Thani" belongs to the
 - (a) Bundi school (b) Jaipur school (c) Kangra school (d) Kishangarh school
- 43. What is "Terminal High Altitude Area Defense (THAAD)", sometimes seen in the news?
 - (a) An Israeli radar system
 - (b) India's indigenous anti-missile programme
 - (c) An American anti-missile system
 - (d) A defence collaboration between Japan and South Korea

44. With reference to cultural history of India, consider the following statements :

- (1) Most of the Tyagaraja Kritis are devotional songs in praise of Lord Krishna.
- (2) Tyagaraja created several new ragas.
- (3) Annamacharya and Tyagaraja are contemporaries.
- (4) Annamacharya kirtanas are devotional songs in praise of Lord Venkateshwara.

Which of the statements given above are correct?

- (a) 1 and 3 only (b) 2 and 4 only (c) 1, 2 and 3 (d) 2, 3 and 4
- 45. Which of the following are regarded as the main features of the "Rule of Law"?
 - (1) Limitation of powers
 - (2) Equality before law
 - (3) People's responsibility to the Government
 - (4) Liberty and civil rights

Select the correct answer using the code given below:

- (a) 1 and 3 only (b) 2 and 4 only (c) 1, 2 and 4 only (d) 1, 2, 3 and 4
- 46. Which one of the following statements correctly describes the meaning of legal tender money?
 - (a) The money which is tendered in courts of law to defray the fee of legal cases
 - (b) The money which a creditor is under compulsion to accept in settlement of his claims

- (c) The bank money in the form of cheques, drafts, bills of exchange, etc.
- (d) The metallic money in circulation in a country

47. If a commodity is provided free to the public by the Government, then

- (a) the opportunity cost is zero.
- (b) the opportunity cost is ignored.
- (c) the opportunity cost is transferred from the consumers of the product to the tax-paying public.
- (d) the opportunity cost is transferred from the consumers of the product to the Government.

48. Increase in absolute and per capita real GNP do not connote a higher level of economic development, if

- (a) industrial output fails to keep pace with agricultural output.
- (b) agricultural output fails to keep pace with industrial output.
- (c) poverty and unemployment increase.
- (d) imports grow faster than exports.

49. Consider the following statements :

Human capital formation as a concept is better explained in terms of a process which enables

- (1) individuals of a country to accumulate more capital.
- (2) increasing the knowledge, skill levels and capacities of the people of the country.
- (3) accumulation of tangible wealth.
- (4) accumulation of intangible wealth.

Which of the statements given above is/are correct?

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

50. Despite being a high saving economy, capital formation may not result in significant increase in output due to

- (a) weak administrative machinery
- (b) illiteracy
- (c) high population density
- (d) high capital-output ratio

51. After the Santhal Uprising subsided, what was/were the measure/measures taken by the colonial government?

- (1) The territories called Santhal Paraganas' were created.
- (2) It became illegal for a Santhal to transfer land to a non-Santhal.

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

52. Economically, one of the results of the British rule in India in the 19th century was the

- (a) Increase in the export of Indian increase in handicrafts
- (b) growth in the number of Indian owned factories
- (c) commercialization of Indian agriculture
- (d) rapid increase in the urban population

53.	If t	If the President of India exercises his power as provided under Article 356 of the									
	Cor	Constitution in respect of a particular State, then									
	(a)	the Assembly of the State automatically dissolved.									
	(b)	the powers	of the Le	gislature of	that State s	hall be exercise	able by or	under the authority			
		of the Parli	ament.								
	(c)	Article 19 i	s suspend	led in that S	State.						
	(d)	the Preside	nt can ma	ke laws rel	ating to that	State.					
54.	Cor	Consider the following pairs:									
	Cra	ıft			Heritage	of					
	(1)	Puthukkuli	shawls	-	Tamil Na	du					
	(2)	Sujni embr	oidery	-	Maharasl	ntra					
	(3)	Uppada Jar	ndani sari	is -	Karnatak	a					
	Wh	ich of the pa	irs given	above is/a	re correct?						
	(a)	1 only	(b)	1 and 2	(c)	3 only	(d)	2 and 3			
55.	In v	which of the	following	g areas can	GPS techn	ology be used	?				
	(1)	Mobile pho	ne operat	tions	(2)	Banking ope	erations				
	(3)	Controlling	the power	er grids							
	Sele	ect the corre	ct answe	r using the	code given	below:					
	(a)	1 only	(b)	2 and 3 or	nly (c)	1 and 3 only	(d)	1, 2 and 3			
56.	Cor	nsider the fo	llowing s	tatements							

- (1) The Reserve Bank of India manages and services Government of India Securities but not any State Government Securities.
- (2) Treasury bills are issued by the Government of India and there are no treasury bills issued by the State Governments.
- (3) Treasury bills offer are issued at a discount from the par value.

Which of the statements given above is/are correct?

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

(c) 2 and 3 only

(d) 1, 2 and 3

57. **Consider the following statements:**

- The Earth's magnetic field has reversed every few hundred thousand years.
- (2) When the Earth was created more than 4000 million years ago, there was 54% oxygen and no carbon dioxide.
- (3) When living organisms originated, they modified the early atmosphere of the Earth.

Which of the statements given above is/are correct?

(a) 1 only

(b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

58. The terms WannaCry, Petya and EternalBlue' sometimes mentioned in the news recently are related to

(a) Exoplanets

(b) Cryptocurrency (c) Cyber attacks

(d) Mini satellites

59. With reference to the circumstances in Indian agriculture, the concept of "Conservation Agriculture" assumes significance. Which of the following fall under the Conservation Agriculture?

- (1) Avoiding the monoculture practices
- (2) Adopting minimum tillage
- (3) Avoiding the cultivation of plantation crops
- (4) Using crop residues to cover soil surface
- (5) Adopting spatial and temporal crop sequencing/crop rotations

Select the correct answer using the code given below:

- (a) 1, 3 and 4
- (b) 2, 3, 4 and 5
- (c) 2, 4 and 5
- (d) 1, 2, 3 and 5

60. The term "sixth mass extinction/sixth extinction" is often mentioned in the news in the context of the discussion of

- (a) Widespread monoculture practices in agriculture and large-scale commercial farming with indiscriminate use of chemicals in many parts of the world that may result in the loss of good native ecosystems.
- (b) Fears of a possible collision of a meteorite with the Earth in the near future in the manner it happened 65 million years ago that caused the mass extinction of many species including those of dinosaurs.
- (c) Large scale cultivation of genetically modified crops in many parts of the world and promoting their cultivation in other parts of the world which may cause the disappearance of good native crop plants and the loss of food biodiversity.
- (d) Mankind's over-exploitation/misuse of natural resources, fragmentation/loss of natural habitats, destruction of ecosystems, pollution and global climate change.

61. With reference to the Indian Regional Navigation Satellite System (IRNSS), consider the following statements:

- (1) IRNSS has three satellites geostationary and four satellites geosynchronous orbits.
- (2) IRNSS covers entire India and about 5500 s km beyond its borders.
- (3) India will have its own satellite navigation system with full global coverage by the middle of 2019.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) None

62. Consider the following phenomena:

- (1) Light is affected by gravity.
- (2) The Universe is constantly expanding.
- (3) Matter warps its surrounding space-time.

Which of the above is/are the prediction/predictions of Albert Einstein's General Theory of Relativity, often discussed in media?

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

- 63. With reference to the Genetically Modified mustard (GM mustard) developed in India, consider the following statements:
 - (1) GM mustard has the genes of a soil bacterium that give the plant the property of pest-resistance to a wide variety of pests.
 - (2) GM mustard has the genes that allow the plant cross-pollination and hybridization.
 - (3) GM mustard has been developed jointly by the IARI and Punjab Agricultural University.

Which of the statements given above is/are correct?

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

64. Consider the following pairs:

Terms sometimes seen in news

Context/Topic

(1) Belle II experiment

- Artificial Intelligence
- (2) Blockchain technology
- Digital/ Cryptocurrency

(3) CRISPR-Cas9

- Particle Physics

Which of the pairs given above is/are correctly matched?

- (a) 1 and 3 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- 65. Which of the following statements best describes "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
- 66. When the alarm of your smartphone rings in the morning, you wake up and tap it to stop the alarm which causes your geyser to be switched on automatically. The smart mirror in your bathroom shows the day's weather and also indicates the level of water in your overhead tank. After you take some groceries from your refrigerator for making breakfast, it recognises the shortage of stock in it and places an order for the supply of fresh grocery items. When you step out of your house and lock the door, all lights, fans, geysers and AC machines get switched off automatically. On your way to office, your car warns you about traffic congestion ahead and suggests an alternative route, and if you are late for a meeting, it sends a message to your office accordingly.

In the context of emerging communication technologies, which one of the following terms best applies to the above scenario?

- (a) Border Gateway Protocol
- (b) Internet of Things

(c) Internet Protocol

- (d) Virtual Private Network
- 67. 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.

(15)

	(2)	The solar power tariffs are determined by the Solar Energy Corporation of	India.								
	Wh	hich of the statements given above is/are correct?									
	(a)	1 only (b) 2 only (c) Both 1 and 2 (d) Neith	ner 1 nor 2								
68.	The	ne staple commodities of export by the English East India Company fro	m Bengal in								
	the	e middle of the 18th century were									
	(a)	Raw cotton, oil-seeds and opium (b) Sugar, salt, zinc and lead									
	(c)	Copper, silver, gold, spices and tea (d) Cotton, silk, saltpetre and op	ium								
69.	Wh	Which one of the following is a very significant aspect of the Champaran Satyagraha?									
	(a)	a) Active all-India participation of lawyers, students and women in the National Movement									
	(b)	Active involvement of Dalit and Tribal communities of India in the Nation	al Movement								
	(c)	Joining of peasant unrest to India's National Movement									
	(d)	Drastic decrease in the cultivation of plantation crops and commercial cro	ps								
70.	Who among the following were the founders of the "Hind Mazdoor Sabha" established										
	in 1948 ?										
	(a)	B. Krishna Pillai, E.M.S. Namboodiripad and K.C. George									
	(b)	Jayaprakash Narayan, Deen Dayal Upadhyay and M.N. Roy									
	(c)	, , , , , , , , , , , , , , , , , , ,									
	(d)	Ashok Mehta, T.S. Ramanujam and G.G. Mehta									
71.	Wit	ith reference to the religious practices in India, the "Sthanakvasi" sect b	elongs to								
	(a)										
72.	With reference to the cultural history of India, consider the following statements:										
	(1)										
	(2)	S	ii Darwaza at								
		Lucknow.									
		hich of the statements given above is/are correct?									
	(a)										
73.		hich one of the following foreign travellers elaborately discussed about di	amonds and								
		amond mines of India?									
	(a)		1								
	(c)	· /									
74.		ith reference to Indian history, who among the following is a future Bu	iddha, yet to								
		me to save the world?									
	(a)		•								
75.	Which one of the following statements does not apply to the system of Subsidiary Alliance										
	introduced by Lord Wellesley?										
	(a)										
	(b)										
	(c)	To secure a fixed income for the Company									

UPSC CSE (P) Question Papers

	(d) To establish British paramountcy over the Indian States									
76.	Which of the following led to the introduction of English Education in India?									
	(1) Charter Act of 1813									
	(2) General Committee of Public Instruction, 1823									
	(3) Orientalist and Anglicist Controversy									
	Select the correct answer using the code given below:									
	(a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3									
77.	Which one of the following is an artificial lake?									
	(a) Kodaikanal (Tamil Nadu) (b) Kolleru (Andhra Pradesh)									
	(c) Nainital (Uttarakhand) (d) Renuka (Himachal Pradesh)									
78.	With reference to Pradhan Mantri Kaushal Vikas Yojana, consider the following									
	statements:									
	(1) It is the flagship scheme of the Ministry of Labour and Employment.									
	(2) It, among other things, will also impart training in soft skills, entrepreneurship, financiand digital literacy.									
	It aims to align the competencies of the unregulated workforce of the country to the National Skill Qualification Framework.									
	Which of the statements given above is/are correct?									
	(a) 1 and 3 only (b) 2 only (c) 2 and 3 only (d) 1, 2 and 3									
79.	In 1920, which of the following changed its name to "Swarajya Sabha"?									
	(a) All India Home Rule League (b) Hindu Mahasabha									
	(c) South Indian Liberal Federation (d) The Servants of India Society									
80.	Which among the following events happened earliest?									
	(a) Swami Dayanand established Arya Samaj.									
	(b) Dinabandhu Mitra wrote Neeldarpan.									
	(c) Bankim Chandra Chattopadhyay wrote Anandmath.									
	(d) Satyendranath Tagore became the first Indian to succeed in the Indian Civil Services									
	Examination.									
81.	Which of the following is/are the possible consequence/s of heavy sand mining									
	riverbeds?									
	(1) Decreased salinity in the river									
	(2) Pollution of groundwater									
	(3) Lowering of the water-table									
	Select the correct answer using the code given below:									
	(a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3									
82.	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									

(17)

	· · · · · · · · · · · · · · · · · · ·									
(3)	Irrigation over a period of time can contribute to the salinization of some agricultural lands.									
Wh	ich 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									
The	e Partnership for Action on Green Economy (PAGE), a UN mechanism to assist									
cou	countries transition towards greener and more inclusive economies, emerged at									
(a)	The Earth Summit on Sustainable Development 2002, Johannesburg									
(b)	The United Nations Conference on Sustainable Development 2012, Rio de Janeiro									
(c)	The United Nations Framework Convention on Climate Change 2015, Paris									
(d)	The World Sustainable Development Summit 2016, New Delhi									
"3D	printing" has applications in which of the following?									
(1)	Preparation of confectionery items (2) Manufacture of bionic ears									
(3)	Automotive industry (4) Reconstructive surgeries									
(5)	Data processing technologies									
Sele	Select the correct answer using the code given below:									
(a)	1, 3 and 4 only (b) 2, 3 and 5 only (c) 1 and 4 only (d) 1, 2, 3, 4 and 5									
Consider the following statements:										
(1)	The Barren Island volcano is an active volcano located in the Indian territory.									
(2)	Barren Island lies about 140 km east of Great Nicobar.									
(3)	The last time the Barren Island volcano erupted was in 1991 and it has remained inactive									
	since then.									
Wh	ich of the statements given above is/are correct?									
(a)	1 only (b) 2 and 3 (c) 3 only (d) 1 and 3									
Wh	y is a plant called Prosopis juliflora often mentioned in news?									
(a)	Its extract is widely used in cosmetics,									
(b)	It tends to reduce the biodiversity in the area in which it grows.									
(c)	Its extract is used in the synthesis of pesticides.									
(d)	None of the above									
Cor	Consider the following statements :									
(1)	Most of the world's coral reefs are in tropical waters.									
(2)	More than one-third of the world's coral reefs are located in the territories of Australia,									
	Indonesia and Philippines.									
(3)	Coral reefs host far more number of animal phyla than those hosted by tropical rainforests.									
Wh	ich 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									
"M	omentum for Change : Climate Neutral Now" is an initiative launched by									
(a)	The Intergovernmental Panel on Climate Change									
(b)	The UNEP Secretariat									
	Wh (a) The cou (a) (b) (c) (d) "3I (1) (3) (5) Sele (a) Cou (1) (2) (3) Wh (a) (b) (c) (d) Cou (1) (2) (3) Wh (a) "M (a) "M (a) "M (a) "M (a) "M (a) "M (b) "M (b) "M (c) (d) (d) (d) (d) (e) (f) (f) (f) (g) (g) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h									

UPSC CSE (P) Question Papers -

The UNFCCC Secretariat

	(d)	The World Me	eteorol	ogical Organi	zatio	n				
89.	With reference to educational institutions during colonial rule in India, consider the									
	foll	following pairs:								
	Inst	titution				Fou	nder			
	(1)	(1) Sanskrit College at Benaras -				Will	liam Jones			
	(2) Calcutta Madarsa				-	War	ren Hastings			
	(3)	(3) Fort William College -				Arth	nur Wellesley			
	Wh	ich of the pairs	given	above is/are	corr	ect?				
	(a)	1 and 2	(b)	2 only		(c)	1 and 3	(d)	3 only	
90.	Consider the following pairs:									
	Reg	gions sometime	S	Country						
	mei	ntioned in news	5							
	(1)	Catalonia		Spain						
	(2)	Crimea		Hungary						
	(3)	Mindanao		Philippines						
	(4)	Oromia		Nigeria						
	Which of the pairs given above are correctly matched?									
	(a)	1, 2 and 3	(b)	3 and 4 only	7	(c)	1 and 3 only	(d)	2 and 4 only	
91.	Consider the following events :									
	(1)	(1) The first democratically elected communist party government formed in a State in India.								
	(2)	2) India's then largest bank, 'Imperial Bank of India', was renamed 'State Bank of India'.								
	(3)	(3) Air India was nationalised and became the national carrier.								
	(4)	(4) Goa became a part of independent India.								
	Wh	ich of the follo	wing is	s the correct	chro	nolog	gical sequence	of the al	oove events?	
	(a)	4-1-2-3	(b)	3-2-1-4		(c)	4-2-1-3	(d)	3-1-2-4	
92.	Rig	ht to Privacy is	s prote	ected as an in	trins	ic pa	rt of Right to	Life and	l Personal Liberty.	
	Which of the following in the Constitution of India correctly and appropriately imply									
	the	above statemen								
	(a)	Article 14 and	_						stitution	
	(b)	(b) Article 17 and the Directive Principles of State Policy in Part IV								
	(c)	Article 21 and		_						
	(d)	Article 24 and	-	ovisions unde	er the	44th	Amendment to	o the Con	stitution	
93.	Cor	isider the follow	Ü							
	(1)	Areca nut	(2)	Barley		(3)	Coffee	(4)	Finger millet	
	(5)	Groundnut	(6)	Sesamum		(7)	Turmeric			
					ic Af	ffairs	has annound	ced the I	Minimum Support	
	Pri	ce for which of	the ab	ove?						
	– (1	8)					UPS	SC CSE (P) Question Papers	

	(a)	1, 2, 3 and 7 or	nly		(b)	2, 4, 5 and 6 or	nly				
	(c)	1, 3, 4, 5 and 6	only		(d)	1, 2, 3, 4, 5, 6	and 7				
94.	In v	which one of the	follov	wing States is P	Pakhui V	Wildlife Sanctu	ary loc	ated?			
	(a)	Arunachal Prac	desh		(b)	Manipur					
	(c)	Meghalaya			(d)	Nagaland					
95.	Wit	h reference to I	ndia's	satellite launc	h vehic	les, consider th	e follov	ving statements:			
	(1)	PSLVs launch	the sa	tellites useful fo	or Earth	resources mon	itoring	whereas GSLVs are			
		designed mainl	ly to la	unch communi	cation s	atellites.					
	(2)	Satellites launc	hed by	y PSLV appear t	to remai	n permanently f	ixed in	the same position in			
		the sky, as viewed from a particular location on Earth.									
	(3)	GSLV Mk III i	s a fo	ur-staged launcl	h vehicl	e with the first	and thir	d stages using solid			
		rocket motors;	and th	e second and for	ourth sta	ges using liquid	rocket	engines.			
	Wh	ich of the staten		_	are cor	rect ?					
	` '	1 only	` /	2 and 3	` '	1 and 2	` /	3 only			
96.			ie gov	ernance of pub	lic secto	r banking in In	dia, con	sider the following			
	stat	atements:									
	(1)	1									
	(-)	increased in the last decade.									
	(2)					merger of asso	ciate ba	nks with the parent			
	***			as been affected		49					
		ich of the staten		_			(1)	N. 1. 2			
07	(a)	3	` /	2 only	(c)	Both 1 and 2	(d)	Neither 1 nor 2			
97.		Consider the following items:									
	. ,	Cereal grains h		1							
		Chicken eggs c									
	(3)	Fish processed			notorio1						
	. ,	(4) Newspapers containing advertising material Which of the above items is/are exempted under GST (Goods and Services Tax)?									
		1 only		2 and 3 only		•		•			
98.	` '	nsider the follow	` /	2	(c)	1, 2 and 4 omy	(u)	1, 2, 3 and 4			
70.	(1)		_		Hahitat'	' is incornorate	d in the	Forest Rights Act,			
	(1)	2006.	01 0	inicai whatic	Tiaonat	is incorporate	d III tiic	Torest Rights Het,			
	(2)		ne in I	ndia, Baigas hav	ve heen	given Habitat R	ights				
	(3)					_	•	ficially decides and			
	(3)						•	in any part of India.			
	Wh	ich of the staten	_				отоиро	m uny part or mara.			
	(a)	1 and 2 only		2 and 3 only	(c)		(d)	1, 2 and 3			
	(4)		(~)		(*)	J	(4)	, —			

- (1) Birds
- (2) Dust blowing
- (3) Rain
- (4) Wind blowing

Which of the above spread plant diseases?

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

100. 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.
- (3) Sikkim has become India's first fully organic State.

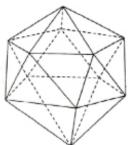
Which of the statements given above is/are correct?

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



GENERAL STUDIES - II (PRELIMS) - 2018

1. Consider the following three-dimensional figure :



How many triangles does the above figure have?

- (a) 18
- (b) 20
- (c) 22
- (d) 24

2. Consider the following sum:

•
$$+1$$
• $+2$ • $+$ •3 $+$ •1 $=$ 21•

In the above sum, • stands for

- (a) 4
- (b) 5

- (c) 6
- (d) 8

3. Consider the following pattern of numbers:

8	10	15	13
6	5	7	4
4	6	8	8
6	11	16	?

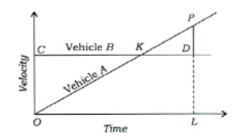
What is the number at ? in the above pattern?

- (a) 17
- (b) 19
- (c) 21
- (d) 23

4. How many diagonals can be drawn by joining the vertices of an octagon?

- (a) 20
- (b) 24
- (c) 28
- (d) 64

5. The figure drawn below gives the velocity graphs of two vehicles A and B. The straight line OKP represents the velocity of vehicle A at any instant, whereas the horizontal straight line CKD represents the velocity of vehicle B at any instant. In the figure, D is the point where perpendicular from P meets the horizontal line CKD such that PD = $\frac{1}{2}$ LD:



What is the ratio between the distances covered by vehicles A and B in the time interval OL?

- (a) 1:2
- (b) 2:3
- (c) 3:4
- (d) 1:1
- 6. A train 200 metres long is moving at the rate of 40 kmph. In how many seconds will it cross a man standing near the railway line?
 - (a) 12
- (b) 15
- (c) 16
- (d) 18

Directions for the following 4 (four) items:

Read the following four passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE-1

Global population was around 1.6 billion in 1990-today it is around 7.2 billion and growing. Recent estimates on population growth predict a global population of 9.6 billion in 2050 and 10.9 billion in 2100. Unlike Europe and North America, where only three to four per cent of population is engaged in agriculture, around 47 per cent of India's population is dependent upon agriculture. Even if India continues to do well in the service sector and the manufacturing sector picks up, it is expected that around 2030 when India overtakes China as the world's most populous country, nearly 42 per cent of India's population will still be predominantly dependent on agriculture.

- 7. Which of the following is the most logical and rational inference that can be made from the above passage?
 - (a) Prosperity of agriculture sector is of critical importance to India.
 - (b) Indian economy greatly depends on its agriculture.
 - (c) India should take strict measures to control its rapid population growth.
 - (d) India's farming communities should switch over to other occupations to improve their economic conditions.

PASSAGE-2

Many pathogens that cause foodborne illnesses are unknown. Food contamination can occur at any stage from farm to plate. Since most cases of food poisoning go unreported, the true extent of global foodborne illnesses is unknown. Improvements in international monitoring have led to greater public awareness, yet the rapid globalization of food production increases consumers' vulnerability by making food harder to regulate and trace. "We have the world on our plates", says an official of WHO.

- 8. Which of the following is the most logical corollary to the above passage?
 - (a) With more options for food come more risks.
 - (b) Food processing is the source of all foodborne illnesses.
 - (c) We should depend on locally produced food only.
 - (d) Globalization of food production should be curtailed.

PASSAGE-3

I am a scientist, privileged to be somebody who tries to understand nature using the tools of science. But it is also clear that there are some really important questions that science cannot really answer, such as: Why is there something instead of nothing? Why are we here? In those domains, I have found that faith provides a better path to answers. I find it oddly anachronistic that in today's culture there seems to be a widespread presumption that scientific and spiritual views are incompatible.

9. Which of the following is the most logical and rational inference that can be made from the above passage?

- (a) It is the faith and not science that can finally solve all the problems of mankind.
- (b) Science and faith can be mutually complementary if their proper domains are understood.
- (c) There are some very fundamental questions which cannot be answered by either science or faith.
- (d) In today's culture, scientific views are given more importance than spiritual views.

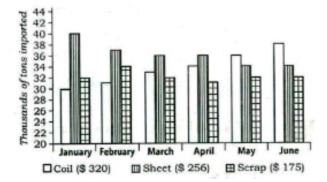
PASSAGE - 4

Though I have discarded much of past tradition and custom, and am anxious that India should rid herself of all shackles that bind and contain her and divide her people, and suppress vast numbers of them, and prevent the free development of the body and the spirit; though I seek all this, yet I do not wish to cut myself off from that past completely. I am proud of that great inheritance that has been and is, ours and I am conscious that I too, like all of us, am a link in that unbroken chain which goes back to the dawn of history in the immemorial past of India.

10. The author wants India to rid herself of certain past bonds because

- (a) He is not able to see the relevance of the past
- (b) There is not much to be proud of
- (c) He is not interested in the history of India
- (d) They obstruct her physical and spiritual growth

Directions for the following 3 (three) items:



The following three items are based on the graph given below which shows imports of three different types of steel over a period of six months of a year. Study the graph and answer the three items that follow. The figures in the brackets indicate the average cost per ton over six months period.

(24)

11.	11. By how much (measured in thousands of tons) did the import of sheet steel exceed the							
	impoi	rt of coil stee	l in the	e first three	months of	the year?		
	(a) 1	11	(b)	15	(c)	19	(d)	23
12.	What	was the app	roxima	ate total val	lue (in \$) o	f sheet ste	el imported o	ver the six months
	perio	d?						
	(a) 4	45,555			(b)	50,555		
	(c) 5	55,550			(d)	65,750		
13.	What	was the app	roxim	ate ratio of	sheet stee	l and scra	p steel impor	ts in the first three
	mont	hs of the year	:?					
	(a) 1	1:1	(b)	1.2:1	(c)	1:4:1	(d)	1.6:1
Direct	tions fo	r the followin	ng 3 (tl	hree) items:	:			
Rotate	ed positi	ions of a sing	le solic	d are shown	below. Th	e various f	aces of the so	lid are marked with
differe	ent syml	bols like dots.	cross	and line. An	swer the tl	nree items t	hat follow the	e given figures.
	J	<i></i>						
	/	77 /-	/	///	/x/			
		7) ((\cdot)	(-1)	(-1)			
	L.		/	····/	<i>/</i>			
14.	What	t is the symbo	ol on th	ie face oppo	osite to tha	it containi	ng a single do	ot?
	(a) I	Four dots	(b)	Three dots	(c)	Two dots	s (d)	Cross
15.	What	t is the symbo	l on th	ie face oppo	osite to tha	t containi	ng two dots?	
	(a) S	Single dot	(b)	Three dots	(c)	Four dot	s (d)	Line
16.	What	is the symbo	l on th	ie face oppo	osite to tha	t containi	ng the cross?	
	(a) S	Single dot	(b)	Two dots	(c)	Line	(d)	Four dots
Direct	tions fo	or the following	1g 4 (f	our) items:				
			•	,	ur items th	at follow. Y	our answers to	o these items should
		he passage on						
		1 0	,	P	ASSAGE			
T4 *	1	1.0	4 4 11				, 1 ,	M 1: 111
								n. Making available
	•							t all children attend
	•	•		0 1		•	•	en may not attend or
they may drop out after a few months. Through school and social mapping, we must address the entire								
•	gamut of social, economic, cultural and indeed linguistic and pedagogic issues, factors that prevent							
childre	en from	weaker section	ons an	d disadvanta	aged group	s, as also g	irls, from regu	ularly attending and
compl	ementir	ng elementary	educa	tion. The fo	ocus must l	oe on the p	oorest and mo	ost vulnerable since
these §	these groups are the most disempowered and at the greatest risk of violation or denial of their right							
to edu	cation.							
The ri	ght to e	education goe	s beyon	nd free and	compulsor	y education	n to include q	uality education for
all. Quality is an integral part of the right to education. If the education process lacks quality, children								

UPSC CSE (P) Question Papers

are being denied their right. The Right of Children to Free and Compulsory Education Act lays down that the curriculum should provide for learning through activities, exploration and discovery. This places an obligation on us to change our perception of children as passive receivers of knowledge, and to move beyond the convention of using textbooks as the basis of examinations. The teaching-learning process must become stress-free; and a massive programme for curricular reform should be initiated to provide for a child-friendly learning system, that is more relevant and empowering. Teacher accountability systems and processes must ensure that children are learning, and that their right to learn in a child-friendly environment is not violated. Testing and assessment systems must be reexamined and redesigned to ensure that these do not force children to struggle between school and tuition centres, and bypass childhood.

17. According to the passage, which of the following is/are of paramount importance under the Right to Education?

- 1. Sending of children to school by all parents
- 2. Provision of adequate physical infrastructure in schools
- 3. Curricular reforms for developing child-friendly learning system

Select the correct answer using the code given below.

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

18. With reference to the above passage, the following assumptions have been made:

- 1. The Right to Education guarantees teachers' accountability for the learning process of children.
- 2. The Right to Education guarantees 100% enrolment of children in the schools.
- 3. The Right to Education intends to take full advantage of demographic dividend.

Which of the above assumptions is/are valid?

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

19. According to the passage, which one of the following is critical in bringing quality in education?

- (a) Ensuring regular attendance of children as well as teachers in school
- (b) Giving pecuniary benefits teachers to motivate them
- (c) Understanding the socio-cultural background of children
- (d) Inculcating learning activities and discovery

20. What is the essential message in this passage?

- (a) The Right to Education now is a Fundamental Right.
- (b) The Right to Education enables the children of poor and weaker sections of the society to attend schools.
- (c) The Right to Free and Compulsory Education should include quality education for all.
- (d) The Government as well as parents should ensure that all children attend schools.

21. If LSJXVC is the code for MUMBAI, the code for DELHI is

- (a) CCIDD
- (b) CDKGH
- (c) CCJFG
- (d) CCIFE

the following?
(a) -9 and 1

(a) XY

22.

23.

24.

Read tl	he foll	lowing informat	ion ar	nd answer the two	items	that follow. The	plan of	an office block for
six offi	cers A	A, B, C, D, E and	l F is a	as follows : Both B	and	C occupy offices	to the 1	right of the corridor
(as one	e ente	rs the office bloc	k) an	d A occupies on th	e left	of the corridor. I	E and I	Foccupy offices on
opposi	te side	es of the corridor	but t	heir offices do not	face e	ach other. The of	fices o	f C and D face each
other. I	E does	s not have a corn	er off	ice. F's office is fur	rther o	down the corridor	than A	A's, but on the same
side.								
25.	If E	sits in his office	and	faces the corridor	; who	se office is to his	s left?	
	(a)	A	(b)	В	(c)	C	(d)	D
26.	Who	is/are F's imm	ediat	e neighbour/ neig	hbou	rs?		
	(a)	A only	(b)	A and D	(c)	C only	(d)	B and C
Direct	ions f	or the following	g 7 (se	even) items:				
Read t	he fol	llowing four pas	ssages	s and answer the	items	that follow. You	ır ansv	vers to these items
should	be ba	sed on the passa	iges o	nly.				
				PASSA(GE-1			
'Desert	ificati	ion' is a term us	ed to	explain a process	of d	ecline in the biol	ogical	productivity of an
ecosys	tem, 1	eading to total l	oss o	f productivity. Wh	ile th	is phenomenon i	s often	linked to the arid,
semi-a	rid an	d sub-humid eco	osyste	ms, even in the hu	mid t	ropics, the impac	t could	d be most dramatic.
Impov	erishn	nent of human-i	mpac	ted terrestrial ecos	syster	ns may exhibit i	tself in	a variety of ways
: accel	erated	l erosion as in th	ne mo	ountain regions of	the co	ountry, salinizatio	on of la	and as in the semi-
arid an	d ario	d 'green revoluti	on' ar	eas of the country	, e.g.	, Haryana and w	estern	Uttar Pradesh, and
site qu	ality	decline-a comm	on ph	nenomenon due to	gene	ral decline in tre	e cove	er and monotonous
monoc	ulture	of rice/wheat a	cross	the Indian plains.	A ma	jor consequence	of def	Forestation is that it
relates	to adv	verse alterations	in the	e hydrology and re	lated	soil and nutrient	losses.	The consequences
of defo	restat	tion invariably a	rise o	ut of site degradati	ion th	rough erosive los	sses. Ti	ropical Asia, Africa
and Sc	outh A	America have the	e higl	hest levels of eros	sion.	The already high	rates	for the tropics are
increas	sing at	t an alarming rat	e (e.g	,, through the maj	or riv	er systems-Ganga	a and E	Brahmaputra, in the
Indian	conte	ext), due to defor	restati	ion and ill-suited l	and r	nanagement prac	tices s	ubsequent to forest
clearin	g. In	the mountain co	ontex	t, the declining m	oistui	re retention of the	ie moi	intain soils, drying
up of	the ur	nderground sprir	ngs ar	nd smaller rivers i	in the	Himalayan regi	on cou	ald be attributed to
	(26	S)				UPSC (CSE (F	P) Question Papers

If RAMON is written as 12345 and DINESH as 675849, then HAMAM will be written as

If X is between -3 and -1, and Y is between -1 and 1, then $x^2 - y^2$ is in between which of

X and Y are natural numbers other than 1, and Y is greater than X. Which of the

(c) 93322

(c) O and 8

(c) Y/X

(d) 0 and 9

(d) (X+Y)/XY

(b) 92323

(b) -9 and -1

(b) X/Y

following represents the largest number?

Directions for the following 2 (two) items:

drastic changes in the forest cover. An indirect consequence is drastic alteration in the upland lowland interaction, mediated through water. The current concern the tea planter of Assam has is about the damage to tea plantations due to frequent inundation along the flood-plains of Brahmaputra, and the damage to tea plantation and the consequent loss in tea productivity is due to rising level of the river bottom because of siltation and the changing course of the river system. The ultimate consequences of site desertification are soil degradation, alteration in available water and its quality, and the consequent decline in food, fodder and fuel wood yields essential for the economic well-being of rural communities.

27. According to the passage, which of the following are the consequences of decline in forest cover?

- 1. Loss of topsoil
- 2. Loss of smaller rivers
- 3. Adverse effect on agricultural production
- 4. Declining of groundwater

Select the correct answer using the code given below.

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

28. Which of the following is/are the correct inference/inferences that can be made from the passage?

- 1. Deforestation can cause changes in the course of rivers.
- 2. Salinization of land takes place due to human activities only.
- 3. Intense monoculture practice in plains is a major reason for desertification in Tropical Asia, Africa and South America.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) None of the above is a correct inference

29. With reference to desertification', as described in the passage, the following assumptions have been made:

- 1. Desertification is a phenomenon in tropical areas only.
- 2. Deforestation invariably leads to floods and desertification.

Which of the above assumptions is/are valid?

(a) 1 only

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

PASSAGE-2

A diversity of natural assets will be needed to cope with climate change and ensure productive agriculture, forestry, and fisheries. For example, crop varieties are needed that perform well under drought, heat, and enhanced CO2. But the private sector and farmer-led process of choosing crops favours homogeneity adapted to past or current conditions, not varieties capable of producing consistently high yields in warmer, wetter, or drier conditions. Accelerated breeding programmes are needed to conserve a wider pool of genetic resources of existing crops, breeds, and their wild

relatives. Relatively intact ecosystems, such as forested catchments, mangroves, wetlands, can buffer the impacts of climate change. Under a changing climate, these ecosystems are themselves at risk, and management approaches will need to be more proactive and adaptive. Connections between natural areas, such as migration corridors, may be needed to facilitate species movements to keep up with the change in climate.

- 30. With reference to the above passage, which of the following would assist us in coping with the climate change?
 - 1. Conservation of natural water sources 2. Conservation of wider gene pool
 - 3. Existing crop management practices 4. Migration corridors

Select the correct answer using the code given below.

- (a) 1, 2 and 3 only (b) 1, 2 and 4 only (c) 3 and 4 only (d) 1, 2, 3 and 4
- 31. With reference to the above passage, the following assumptions have been made:
 - 1. Diversification of livelihoods acts as a coping strategy for climate change.
 - 2. Adoption of monocropping practice leads to the extinction of plant varieties and their wild relatives.

Which of the above assumptions is/are valid?

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

PASSAGE-3

Today, the top environmental challenge is a combination of people and their aspirations. If the aspirations are more like the frugal ones we had after the Second World War, a lot more is possible than if we view the planet as a giant shopping mall. We need to get beyond the fascination with glitter and understand that the planet works as a biological system.

- 32. Which of the following is the most crucial and logical inference that can be made from the above passage?
 - (a) The Earth can meet only the basic needs of humans for food, clothing and shelter.
 - (b) The only way to meet environmental challenge is to limit human population.
 - (c) Reducing our consumerism is very much in our own interest.
 - (d) Knowledge of biological systems can only help us save this planet.

PASSAGE-4

Some people believe that leadership is a quality which you have at birth or not at all. This theory is false, for the art of leadership can be acquired and can indeed be taught. This discovery is made in time of war and the results achieved can surprise even the instructors. Faced with the alternatives of going left or right, every soldier soon grasps that a prompt decision either way is better than an endless discussion. A firm choice of direction has an even chance of being right while to do nothing will be almost certainly wrong.

- 33. The author of the passage holds the view that
 - (a) Leadership can be taught through war experience only

	(b)	b) Leadership can be acquired as well as taught						
	(c)	The results of	trainin	g show that more	peopl	e acquire leadersh	ip tha	n are expected
	(d)	Despite rigoro	us inst	ruction, very few	leader	s are produced		
34.	A n	umber consists	of thr	ree digits of which	h the	middle one is ze	ro and	d their sum is 4. If
	the number formed by interchanging the first and last digits is greater than the number							
	itsel	f by 198, then	the dif	fference between	the fi	rst and last digits	s is	
	(a)	1	(b)	2	(c)	3	(d)	4
35.	A so	olid cube of 3 c	m side	e, painted on all it	ts face	es, is cut up into s	small	cubes of 1 cm side.
	Hov	v many of the s	mall c	cubes will have ex	actly	two painted face	es?	
	(a)	12	(b)	8	(c)	6	(d)	4
36.	Wh	ile writing all t	he nur	nbers from 700 to	1000), how many nun	ibers	occur in which the
	digi	t at hundred's	place i	s greater than the	digit	at ten's place, an	nd the	digit at ten's place
	is gı	reater than the	digit a	at unit's place?				
	(a)	61	(b)	64	(c)	85	(d)	91
37.	If I	Pen < Pencil,	Pencil	< Book and Bo	ok >	Cap, then which	one	of the following is
	alwa	ays true?						
	(a)	Pen > Cap	(b)	Pen < Book	(c)	Pencil = Cap	(d)	Pencil > Cap
38.	A b	ookseller sold	'a' nur	mber of Geograp	hy te	xtbooks at the ra	ate of	₹ x per book, 'a +
	2' n	umber of Hist	ory te	xtbooks at the ra	te of	\neq (x + 2) per bo	ok an	d 'a-2' number of
	Mat	thematics textb	ooks a	at the rate of ₹ (x	- 2) p	er book. What is	his to	otal sale in ₹?
	(a)	3x + 3a	(b)	3ax + 8	(c)	9ax	(d)	x^3a^3
39.	A b	ag contains 15	red ba	alls and 20 black	balls	. Each ball is nu	mber	ed either 1 or 2 or
	3. 2	0% of the red	balls a	are numbered 1	and 4	0% of them are	numl	pered 3. Similarly,
	amo	ong the black b	alls, 45	5% are numbered	2 and	d 30% are numbe	ered 3	. A boy picks a ball
	at r	andom. He win	s if the	e ball is red and n	umb	ered 3 or if it is b	lack a	and numbered 1 or
	2. W	hat are the ch	ances	of his winning?		F		10
	(a)	$\frac{1}{2}$	(b)	$\frac{4}{7}$	(c)	3 9	(d)	12 13
40.	Two	persons, A an	d B ar	e running on a ci	rcula	r track. At the st	art, B	is ahead of A and
	thei	r positions mal	ke an a	angle of 30° at the	centi	re of the circle. W	hen A	A reaches the point
	diar	netrically oppo	site to	his starting poin	t, he	meets B. What is	the r	atio of speeds of A
	and	B, if they are i	runnin	g with uniform s	peeds	?		
	(a)	6:5	(b)	4:3	(c)	6:1	(d)	4:2
41.	A st	udent has to g	et 40%	6 marks to pass	in an	examination. Su	ppose	e he gets 30 marks
	and	fails by 30 ma	rks, th	en what are the r	naxin	num marks in th	e exar	nination?
	(a)	100	(b)	120	(c)	150	(d)	300
42.	19 ł	ooys turn out	for pla	aying hockey. Of	thes	e, 11 are wearin	g hoc	key shirts and 14
	are	wearing hocke	y pan	ts. There are no	boys	without shirts an	nd/or]	pants. What is the
	nun	nber of boys wo	earing	full uniform?				

	(a)	3	(b)	5	(c)	6	(d)	8
Direct	ions	for the following	g 6 (si	x) items :				
Read	the in	formation give	n belo	w and answer th	e six	items that follow.		
А, В,	C an	d D are students	s. The	ey are studying in	ı fou	r different cities, v	viz., I	P, Q, R and S (not
necess	arily	in that order). Th	ney ar	e studying in Scien	nce co	ollege, Arts college	e, Cor	nmerce college and
Engine	eering	g college (not ne	cessai	rily in that order),	whic	h are situated in fo	our di	ifferent States, viz.,
Gujara	ıt, Raj	jasthan, Assam a	nd Ke	erala (not necessar	ily in	that order). Further	er, it is	s given that
	(i)	D is studying in	ı Assa	ım				
	(ii)	Arts college is	locate	d in city S which	is in I	Rajasthan		
	(iii)	A is studying in	Com	merce college				
	(iv)	B is studying in	city	Q				
	(v)	Science college	is lo	cated in Kerala				
43.	A is	studying in						
	(a)	Rajasthan	(b)	Gujarat	(c)	City Q	(d)	Kerala
44.	Scie	nce college is lo	cated					
	(a)	City Q	(b)	City S	(c)	City R	(d)	City P
45.		studying in						
	(a)	Science college	` ′	-	(c)	Gujarat	(d)	City Q
46.				ng statements is o				
	(a)	D is not studyir	_	•	(b)	, ,		•
	(c)	A is studying in			(d)		•	located in Gujarat.
47.				ng statements is o		ct regarding Engi		ng college?
	` /	C is studying th			(b)	<i>y</i> &		
	(c)	It is located in (-		(d)	D is studying the	re.	
48.				ng statements is o		et?		
	(a)	0	_	is located in Assar	n.			
	(b)	City Q is situate						
	(c)	C is studying in						
D:	(d)	B is studying in						
		for the following			•,	41 4 C 11 X7		
		0 0 1	_		eitem	s that follow. You	r ansv	wers to these items
should	ı be b	pased on the pas	sages		~-			
				PASSA	GE-1			

All actions to address climate change ultimately involve costs. Funding is vital in order for countries like India to design and implement adaptation and mitigation plans and projects. The problem is more severe for developing countries like India, which would be one of the hardest hit by climate change, given its need to finance development. Most countries do indeed treat climate change as real threat and are striving to address it in a more comprehensive and integrated manner with the limited

(30) -

resources at their disposal,

49. With reference to the above passage, the following assumptions have been made:

- 1. Climate change is not a challenge for developed countries.
- 2. Climate change is a complex policy issue and also a development issue for many countries.
- 3. Ways and means of finance must be found to enable developing countries to enhance their adaptive capacity.

Which of the above assumptions is/are valid?

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

PASSAGE-2

Cooking with biomass and coal in India is now recognized to cause major health problems, with women and children in poor populations facing the greatest risk. There are more than 10 lakh premature deaths each year from household air pollution due to polluting cooking fuels with another 1.5 lakh due to their contribution to general outdoor air pollution in the country. Although the fraction of the Indian population using clean cooking fuels, such as LPG, natural gas and electricity, is slowly rising, the number using polluting solid fuels as their primary cooking fuel has remained static for nearly 30 years at about 70 crore.

50. Which of the following is the most crucial and logical inference that can be made from the above passage?

- (a) Rural people are giving up the use of polluting solid fuels due to their increasing awareness of health hazards.
- (b) Subsidizing the use of clean cooking fuels will solve the problem of India's indoor air pollution.
- (c) India should increase its import of natural gas and produce more electricity.
- (d) Access to cooking gas can reduce premature deaths in poor households.

PASSAGE-3

Scientific knowledge has its dangers, but so has every great thing. Over and beyond the dangers with which it threatens the present, it opens up as nothing else can, the vision of a possible happy world; a world without poverty, without war, with little illness. Science, whatever unpleasant consequences it may have by the way, is in its very nature a liberator.

51. Which one of the following is the most important implication of the passage?

- (a) A happy world is a dream of science.
- (b) Science only can build a happy world, but it is also the only major threat.
- (c) A happy world is not possible without science.
- (d) A happy world is not at all possible with or without science.

PASSAGE - 4

The Arctic's vast reserves of fossil fuel, fish and minerals are now accessible for a longer period in

a year. But unlike Antarctica, which is protected from exploitation by the Antarctic Treaty framed during the Cold War and is not subject to territorial claims by any country, there is no legal regime protecting the Arctic from industrialization, especially at a time when the world craves for more and more resources. The distinct possibility of ice-free summer has prompted countries with Arctic coastline to scramble for great chunks of the melting ocean.

52. Which one of the following is the most important implication of the passage?

- (a) India can have territorial claims in the Arctic territory and free access to its resources.
- (b) Melting of summer ice in the Arctic leads to changes in the geopolitics.
- (c) The Arctic region will solve the world's future problem of resource crunch.
- (d) The Arctic region has more resources than Antarctica

PASSAGE-5

Being a member of the WTO, India is bound by the agreements that have been signed and ratified by its members, including itself. According to Article 6 of the Agriculture Agreement, providing minimum support prices for agricultural products is considered distorting and is subject to limits. The subsidy arising from minimal supports' cannot exceed 10 per cent of the value of agricultural production for developing countries. PDS in India entails minimum support prices and public stockholding of food grains. It is possible that, in some years, the subsidy to producers will exceed 10 per cent of the value of agricultural production.

53. What is the crucial message conveyed by the above passage?

- (a) India should revise its PDS.
- (b) India should not be a member of WTO.
- (c) For India, food security collides with trade.
- (d) India provides food security to its poor.

PASSAGE-6

India's educational system is modelled on the mass education system that developed in the 19th century in Europe and later spread around the world. The goal of the system is to condition children as 'good' citizens and productive workers. This suited the industrial age that needed the constant supply of a compliant workforce with a narrow set of capabilities. Our educational institutes resemble factories with bells, uniforms and batch-processing of learners, designed to get learners to conform. But, from an economic point of view, the environment today is very different. It is a complex, volatile and globally interconnected world.

54. With reference to the above passage, the following assumptions have been made:

- 1. India continues to be a developing country essentially due to its faulty education system.
- 2. Today's learners need to acquire new-age skill-sets.
- 3. A good number of Indians go to some developed countries for education because the educational systems there are a perfect reflection of the societies in which they function.

Which of the above assumptions is/are valid?

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

PASSAGE-7

The practice of dieting has become an epidemic; everyone is looking out for a way to attain that perfect body. We are all different with respect to our ethnicity, genetics, family history, gender, age, physical and mental and spiritual health status, lifestyles and preferences. Thereby we also differ in what foods we tolerate or are sensitive to. So we really cannot reduce so many complexities into one diet or diet book. This explains the failure of diets across the world in curbing obesity. Unless the reasons for weight gain are well understood and addressed and unless habits are changed permanently, no diet is likely to succeed.

- 55. What is the most logical and rational inference that can be made from the above passage?
 - (a) Obesity has become an epidemic all over the world.
 - (b) A lot of people are obsessed with attaining a perfect body.
 - (c) Obesity is essentially an incurable disease.
 - (d) There is no perfect diet or one solution for obesity.

PASSAGE-8

Monoculture carries great risks. A single disease or pest can wipe out swathes of the world's food production, an alarming prospect given that its growing and wealthier population will eat 70% more by 2050. The risks are magnified by the changing climate. As the planet warms and monsoon rains intensify, farmlands in Asia will flood. North America will suffer more intense droughts, and crop diseases will spread to new latitudes.

- 56. Which of the following is the most logical, rational and crucial message given by the passage?
 - (a) Preserving crop genetic diversity is an insurance against the effects of climate change.
 - (b) Despite great risks, monoculture is the only way to ensure food security in the world.
 - (c) More and more genetically modified crops only can save the world from impending shortages of food.
 - (d) Asia and North America will be worst sufferers from climate change and the consequent shortage of food.
- 57. A shopkeeper sells an article at ₹ 40 and gets X% profit. However, when he sells it at ₹ 20, he faces same percentage of loss. What is the original cost of the article?
 - (a) ₹10
- (b) ₹20
- (c) ₹30
- (d) ₹40
- 58. There are 24 equally spaced points lying on the circumference of a circle. What is the maximum number of equilateral triangles that can be drawn by taking sets of three points as the vertices?
 - (a) 4
- (b) 6

(c) 8

(d) 12

59. Consider the sequence given below:

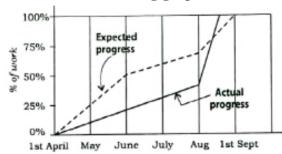
4/12/95, 1/1/96, 29/1/96, 26/2/96,

What is the next term of the series?

- (a) 24/3/96
- (b) 25/3/96
- (c) 26/3/96
- (d) 27/3/96

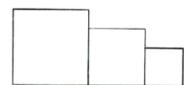
- 60. Twelve equal squares are placed to fit in a rectangle of diagonal 5 cm. There are three rows containing four squares each. No gaps are left between adjacent squares. What is the area of each square?
 - (a) $\frac{5}{7}$ sq cm
- (b) $\frac{7}{5}$ sq cm
- (c) 1 sq cm
- (d) $\frac{25}{12}$ sq cm

61. Consider the following graph:



Which one of the following statements is not correct with reference to the graph given above?

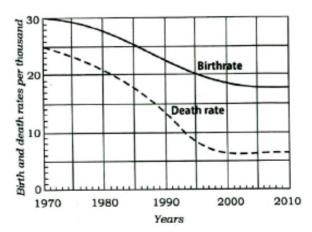
- (a) On 1st June, the actual progress of work was less than expected.
- (b) The actual rate of progress of work was the greatest during the month of August.
- (c) The work was actually completed before the expected time.
- (d) During the period from 1st April to 1st September, at no time was the actual progressmore than the expected progress.
- 62. For a sports meet, a winners' stand comprising three wooden blocks is in the following form:



There are six different colours available to choose from and each of the three wooden blocks is to be painted such that no two of them has the same colour. In how many different ways can the winners' stand be painted?

- (a) 120
- (b) 81
- (c) 66
- (d) 36

Directions for the following 2 (two) items:

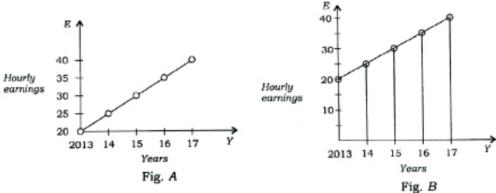


Consider the following graph in which the birth rate and death rate of a country are given, and answer the two items that follow.

- 63. Looking at the graph, it can be inferred that from 1990 to 2010.
 - (a) population growth rate has increased
 - (b) population growth rate has decreased
 - (c) growth rate of population has remained stable
 - (d) population growth rate shows no trend
- 64. With reference to the above graph, consider the following statements considering 1970 as base year:
 - 1. Population has stabilized after 35 years.
 - 2. Population growth rate has stabilized after 35 years.
 - 3. Death rate has fallen by 10% in the first 10 years.
 - 4. Birth rate has stabilized after 35 years.

Which of the above are the most logical and rational statements that can be made from the above graph?

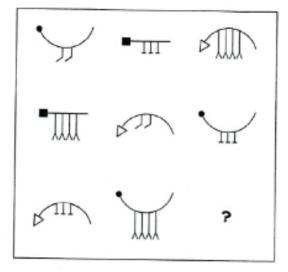
- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 3 and 4
- (d) 2 and 4
- 65. Average hourly earnings per year (E) of the workers in a firm are represented in figures A and B as follows:



From the figures, it is observed that the

- (a) values of E are different
- (b) ranges (i.e., the difference between the maximum and the minimum) of E are different
- (c) slopes of the graphs are same
- (d) rates of increase of E are different

66. Consider the figures given below



To fit the question mark, the correct answer is

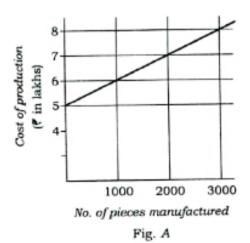
(a)

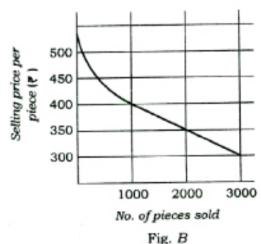
(b)



(d)

67. Consider the following figures A and B:





The manufacturing cost and projected sales for a product are shown in the above figures A and B respectively. What is the minimum number of pieces that should be manufactured to avoid a loss?

- (a) 2000
- (b) 2500
- 3000 (c)
- 3500 (d)

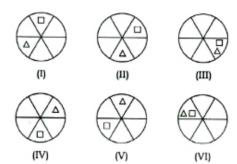
68. A lift has the capacity of 18 adults or 30 children. How many children can board the lift with 12 adults?

- (a) 6
- (b) 10
- (c) 12
- (d) 15

A person bought a refrigerator worth ₹ 22,800 with 12.5% interest compounded yearly. **69.** At the end of first year he paid ₹ 8,650 and at the end of second year ₹ 9,125. How much will he have to pay at the end of third year to clear the debt?

- (a) ₹ 9,990
- (b) ₹ 10,000
- (c) ₹ 10,590
- (d) ₹ 11,250

70. Consider the following figures :



In the figures (I) to (VI) above, some parts are shown to change their positions in regular directions. Following the same sequence, which of the figures given below will appear at (VII) stage?

(a)



(b)



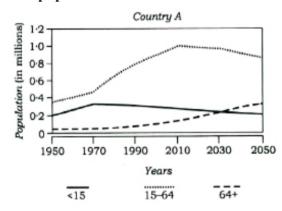
(c)

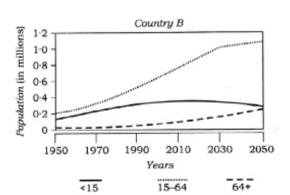


(d)



71. Consider the following graphs. The curves in the graphs indicate different age groups in the populations of two countries A and B over a period of few decades:





With reference to the above graphs, which of the following are the most logical and rational inferences that can be made?

- 1. Over the last two and a half decades, the dependency ratio for country B has decreased.
- 2. By the end of next two and a half decades, the dependency ratio of country A will be much less than that of country B.
- 3. In the next two decades, the work force relative to its total population will increase in country B as compared to country A.

Select the correct answer using the code given below.

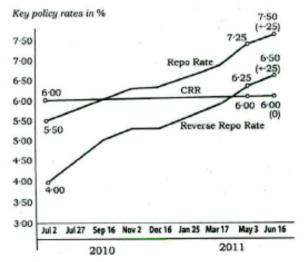
- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3
- 72. Lakshmi, her brother, her daughter and her son are badminton players. A game of

doubles is about to begin:

- (i) Lakshmi's brother is directly across the net from her daughter.
- (ii) Her son is diagonally across the net from the worst player's sibling.
- (iii) The best player and the worst player are on the same side of the net.

Who is the best player?

- (a) Her brother
- (b) Her daughter
- (c) Her son
- (d) Lakshmi
- 73. The graph given below indicates the changes in key policy rates made by the Central



Which one of the following can be the most likely reason for the Central Bank for such an action?

- (a) Encouraging foreign investment
- (b) Increasing the liquidity
- (c) Encouraging both public and private savings
- (d) Anti-inflationary stance

Directions for the following 2 (two) items:

The following table gives the GDP growth rate and Tele-density data of different States of a country in a particular year. Study the table and answer the two items that follow.

States	Per capita income (\$)	GDP growth rate (%)	Tele-density
State 1	704	9.52	70.27
State 2	419	5.31	35.88
State 3	254	10.83	50.07
State 4	545	9.78	5.94
State 5	891	10.8	76.12
State 6	1077	11.69	77.5
State 7	900	8.88	104.86
State 8	395	5.92	6
State 9	720	7.76	82.25
State 10	893	9.55	96.7
State 11	363	4.7	57.7

State 12	966	7.85	63.8
State 13	495	9.37	52.3
State 14	864	5.46	97.9
State 15	497	7.48	62.3
State 16	777	7.03	93.8
State 17	335	5.8	49.9
State 18	599	7.49	47.84

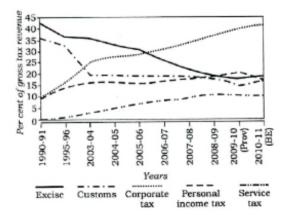
- 74. With reference to the above table, which of the following is/are the most logical and rational inference/ inferences that can be made?
 - 1. Higher per capita income is generally associated with higher Tele-density.
 - 2. Higher GDP growth rate always ensures higher per capita income.
 - 3. Higher GDP growth rate does not necessarily ensure higher Tele density.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 and 3
- (c) 1 and 3
- (d) 3 only
- 75. With reference to the above table, the following assumptions have been made:
 - 1. Nowadays, prosperity of an already high performing State cannot be sustained without making further large investments in its telecom infrastructure.
 - 2. Nowadays, a very high Tele-density is the most essential condition for promoting the business and economic growth in a State.

Which of the above assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 76. The following graph indicates the composition of our tax revenue for a period of two decades:



With reference to the above graph, which of the following is/are the most logical and rational inference/ inferences that can be made?

- 1. During the given period, the revenue from Direct Taxes as percentage of gross tax revenue has increased while that of Indirect Taxes decreased.
- 2. The trend in the revenue from Excise Duty demonstrates that the growth of manufacturing sector has been negative during the given period.

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

77. If x - y = 8, then which of the following must be true?

- 1. Both x and y must be positive for any value of x and y.
- 2. If x is positive, y must be negative for any value of x and y.
- 3. If x is negative, y must be positive for any value of x and y.

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 nor 3

Directions for the following 3 (three) items:

Read the following two passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE-1

The quest for cheap and plentiful meat has resulted in factory farms where more and more animals are squeezed into smaller lots in cruel and shocking conditions. Such practices have resulted in many of the world's health pandemics such as the avian flu. Worldwide, livestock are increasingly raised in cruel, cramped conditions, where animals spend their short lives under artificial light, pumped full of antibiotics and growth hormones, until the day they are slaughtered. Meat production is water-intensive. 15000 litres of water is needed for every kilogram of meat compared with 3400 litres for rice, 3300 litres for eggs and 255 litres for a kilogram of potatoes.

78. What is the most rational and crucial message given by the passage?

- (a) Mass production of meat through industrial farming is cheap and is suitable for providing protein nutrition to poor countries.
- (b) Meat-producing industry violates the laws against cruelty to animals.
- (c) Mass production of meat through industrial farming is undesirable and should be stopped immediately.
- (d) Environmental cost of meat production is unsustainable when it is produced through industrial farming.

PASSAGE-2

A male tiger was removed from Pench Tiger Reserve and was relocated in Panna National Park. Later, this tiger trekked toward his home 250 miles away. The trek of this solitary tiger highlights a crisis. Many wildlife reserves exist as islands of fragile habitat in a vast sea of humanity, yet tigers can range over a hundred miles, seeking prey, mates and territory. Nearly a third of India's tigers live outside tiger reserves, a situation that is dangerous for both human and animal. Prey and tigers can only disperse if there are recognized corridors of land between protected areas to allow unmolested passage.

79. Which of the following is the most rational and crucial message given by the passage?

- (a) The conflict between man and wildlife cannot be resolved, no matter what efforts we make.
- (b) Safe wildlife corridors between protected areas is an essential aspect of conservation efforts.
- (c) India needs to declare more protected areas and set up more tiger reserves.
- (d) India's National Parks and Tiger Reserves need to be professionally managed.

80. With reference to the above passage, the following assumptions have been made:

- 1. The strategy of conservation of wildlife by relocating them from one protected area to another is not often successful.
- 2. India does not have suitable legislation to save the tigers, and its conservation efforts have failed which forced the tigers to live outside protected areas.

Which of the above assumptions is/are valid?

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