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. There shall be no negati	ve marking.							
المحادث والمستعدد المستعدد		્પ રીક્ષર્શીઓ માટે સ્ ચન	ઓ					
I. આ પાનાની ટોચપર દર્શાવેલી 2. આ પ્રશ્નપત્રમાં બફ્રુવેકલ્પિક ઉત્તરો			યાત છે.					
2. આ પ્રમ યત્રના બકુપકાલ્યક ઉત્તરા 3. પરીક્ષાની શરૂઆતમાં આપને પ્રા				પ્રશાપતિ	સ્ત	ત્ર ખોલી	ો અને	કરજિયાતપણે નીચે મજબ પરીક્ષ
\$ रवुं :				_				
પ્રશ્નપુસ્તિકા સ્વીકારસો ન (ii) કવર પૃષ્ઠ પર છપાયેલ હિ બે વાર છપાયા ક્ષેય, અનુ	ોર્દેશાનુસાર પ્રશ્નપુસ્તિકાના પ્રશ્ને ક્રમમાં અથવા અન્ય કોઈ ફરક	ો, પૃષ્ઠી અને સંખ્યાને બ ફોય અર્શ્વત કોઈપણ સંવ	ાબર ચક્રસી ોગોમાં ખામીર	લો. ખા ડક્ત ્	ñ₩. Irff:	યુક્ત પ્ર પુસ્તિકા	!શપુસિ સ્વી	ા સ્ટાકર વગરના કે ખુલ્લા તેકા કે જેમાં પ્રશ્નો/ પૃષ્ઠો ઓછાં હોર કારશ્નો નહીં. અને જો ખામીયુક્ત .) મિનિટનો સમયગાળો આપવામાં
(iii) આ યક્ર સણી સ માપ્ત શાય		MR જવાબ પત્રક પર લ	મ વો અને ON	IR 🕶	વા	ર પત્ર		-
 પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિ પૈનશી ભરીને સંપૂર્વ કાળું કરવા ઉદાકરણ: (A) 	નું રહેશે.		રેસાચા જવાવ	મના અ	મોવ	ici (ov	al) ને	નીચે આપેલ ઉદાફર ણ મુજબ
 આ પ્રશ્નપુસ્તિકાના પ્રશ્નોના જવાલ આપેલ ઓવલ (oval)સિવાથ ર . કાયું કામ (Rough work) પ્રક 	ત્રન્ય સ્થાને જવાબ અંકિત કરશો	. તો તે જવાબનું મૃલ્યાંકન	પર-∐લખેલ (ા કરવામાં આ	વેશાગ વશે ન	માં હ િ	જ અંદિ	કેત કર	વા. જો આપ OMR જવાબ પત્રક્રમ
'. જો આપ OMR જવાબ પત્રક િ શઈ શકે, અંકિત કરશો અશવા : કે સફેદ શાહીનો ઉપયોગ કરી બ	તેયંત જગ્યા સિવાય અન્ય કોઈપ અક્ષદ્ર ભાષાનો પ્રયોગ કરો, અદ હદલશ્રો તો આપને પરીક્ષા માટે	ાણ સ્થાને, આપનું નામ ાવા અન્ય કોઈ અનુચિત : અયોગ્ય જાહેર કરવામાં	યાધનોનો ઉપ ખાવશે .	થોગ ક	રો,	જેમકે	અંકિત	કરી દીધેલ જવાબ ભૂંસી નાખવો
. પરીક્ષા સમય પૂરો થઈ ગયા બા જવું નહીં. પરીક્ષા પૂર્ણ થયા . માત્ર કાળી / ભૂરી બોલ પોઈન્ટ	દ ઓરીજીનલ OMR જવાબ પ બાદ ઉમેદવાર ઓરીજીનલ પ્રશ્ પેન વાપરવી.	ત્રક જે તે નિરીક્ષકને ફર્સ ાપુસ્તિકા અને OMR જવ	રેયાત સોપી	દેવું અ પ્લિકેટ	કે	ક્રેઇ પા ાપી પો	રૂ સંજે તાની	ોગોમાં તે પરીક્ષા ખંડની બક્ષર લઈ સાથે લઈ જઈ શકે છે.
^{).} કેલ્ક્યુલેટર,લોગ ટેબલ અને અન્ 1. ખોટા જવાબ માટે નક્ષસત્મક ગુ	ય ઇલેક્ટોનિક યંત્રોનો ઉપયોગ	કરવાની મનાઇ છે.						
1 - 바이지 막이네 돼? 해워워워요 아	હ્યાકળ પાંચા નથી.							





ENVIRONMENTAL SCIENCES

Paper - II

1.	The ol	bjective	of	environmental	education	is
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Statement – I: To enlighten the people, particularly students, about the importance of protection and conservation of our environment.

Statement - II: Restrain human activities which lead to indiscriminate release of pollutants into the environment.

Choose the correct answer from the options given below:

- (A) Both the statements are true
- (B) Both the statements are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true
- 2. Which of the following Sustainable Development Goals (SDGs) of UN is about 'Clean Water and Sanitation'?
 - (A) Goal 5

(B) Goal 6

(C) Goal 7

- (D) Goal 8
- **3.** Planning Commission has demarcated the geographical area of India into how many agro-climatic zones?
 - (A) 10

(B) 15

(C) 20

- (D) 25
- 4. Given below are two statements.

Statement - I: NNRMS stands for National Natural Resources Management System.

Statement – II: NNRMS aggregates the data related to natural resources from the remote sensing satellites and other conventional techniques.

Choose the correct answer from the options given below:

- (A) Both the statements are true
- (B) Both the statements are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true



5.	Given	helow	are t	WO	statements.
J.	CIVEIL	DCIOM	auti	.wu	Statements.

Statement - I: Tsunami is a Japanese term meaning harbour wave.

Statement - II: Tsunami in essence a sea quake, cannot be prevented as it is a natural phenomenon.

Choose the correct answer from the options given below:

- (A) Both the statements are true
- (B) Both the statements are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true

6. Which among the following is NOT a correct set of mega diversity countries?

- (A) Australia, China, Colombia
- (B) India, Indonesia, Madagascar
- (C) Malaysia, Mexico, Peru
- (D) South Africa, Sri Lanka, Canada

7. Which among the following represents a process occurring at constant volume?

(A) Isobaric process

- (B) Isochoric process
- (C) Isothermal process
- (D) Adiabatic process

8. Match Column - I with Column - II and select answer using code.

Column - I

- Column II 1. O₂, NO⁺ a. Troposphere
- b. Stratosphere
- 2. N₂, O₂, CO₂, H₂O
- c. Mesosphere

- 3. O₃
- d. Thermosphere
- 4. SO₂, O₂^{-•}, NO⁺, NO₃
- 5. O₂⁺, O⁺, NO⁺

b đ

- (A) 2 3 1
- **(B)** 1 3 2 4
- (C) 4 3 5 1
- (D) 1 2 3



9.	Environment science has scope in	
	I. Environmental consultancy	
	II. Non governmental organisations	
	III. Research and Development	
	IV. Field of law	
	Choose the correct answer from the	options given below :
	(A) I, II and III	(B) I, III and IV
	(C) II, III and IV	(D) I, II, III and IV
LO.	Given below are two statements, one labelled as Reason (R).	e labelled as Assertion (A) and the other
	Assertion (A) : Ozone plays key role increases near earth's surface.	in the stratosphere and its level
	Reason (R) : Ozone near the earth s strong oxidant and a respiratory irri	urface is undesirable because it is a tant.
	Choose the correct answer:	
	(A) Both (A) and (R) are correct and	(R) is the correct explanation of (A)
	(B) Both (A) and (R) are correct and	(R) is not the correct explanation of (A)
	(C) (A) is true but (R) is false	
	(D) (A) is false but (R) is true	
11.	During COD determination, the inte	rference of chloride is overcome by the
	(A) Silver salt	(B) Mercury salt
	(C) Barium salt	(D) Calcium salt
12.	Which of the following techniques is s	uitable for identifying isotopes of elements 7
	(A) AAS	(B) XRD
	(C) ICP-AES	(D) ICP-MS
L3.	What is the role of SDS in SDS-PAG	E electrophoresis ?
	(A) Denaturing the protein and impa	arting net negative charge to the protein
	(B) Imparting the proteins same mas	ss

(C) Imparting net negative charge to the proteins

protein

(D) Denaturing of the protein and imparting net positive charge to the



14.	Bomb calorimetry cannot be used to	find
	(A) Calorific value of a biomass	(B) Sulfur content of coal
	(C) Heat of a reaction	(D) Calorific value of a gaseous fuel
15.	Which technique is used for analysis	s of 'CO'?
	(A) Non-dispersive IR spectrometry	(B) X-ray fluorescence
	(C) ICP-OES	(D) AAS
16.	Given below are two statements.	
	Statement - I : Colloidal-size particle aerosols.	les in the atmosphere are known as
	Statement - II : Aerosols of natural called 'Aitken' particles.	origin with diameter less than 0.2μ are
	Choose the correct answer from the	options given below:
	(A) Both the statements are true	
	(B) Both the statements are false	
	(C) Statement I is true but statemen	nt II is false
	(D) Statement I is false but statemen	nt II is true
17.	The set of elements, which can be es	stimated by flame photometry is
	(A) Na, K, Mg, Li	(B) Na, K, Li, Ca
	(C) K, Li, Be, Mg	(D) K, Na, Fe, Cu
18.	Which of the following correctly repres	sents the consequence of global warming?
	I. Sea-level rise	
	II. Melting arctic sea ice	
	III. Severe weather	
	IV. Warmer oceans	
	Choose the correct option:	
	(A) I and III only	
	(B) II and III only	
	(C) I, II and IV only	
	(D) I, II, III and IV	



19. Given below are two statements:

Statement - I: Methyl Isocyanate (MIC) is the raw material for the production of carbamate pesticide.

Statement – II: MIC is always associated with unreacted, phosgene ($COCl_2$) to the extent of 2%.

Choose the correct answer from the options given below:

- (A) Both the statements are true
- (B) Both the statements are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true
- **20.** _____ radical is the key oxidant in the global atmosphere as it controls the concentration of toxic gases like carbon monoxide.
 - (A) $O_2^{\bullet -}$

(B) OH*

(C) *COOH

- (D) CHO
- 21. Darwin noted that, the Patagonian hare was similar in appearance and had a niche similar to European hare. However, the Patagonian hare is not a rabbit. It is a rodent related to guinea pig. The example illustrate the principle known as
 - (A) Divergent evolution
 - (B) Convergent evolution
 - (C) Adaptive radiation
 - (D) Allopatric speciation
- 22. Chaparral is a biome
 - (A) That occurs in regions with winter rain
 - (B) That occurs in regions with summer drought
 - (C) That occurs in regions with summer droughts and is naturally subjected to fires and adapted to this
 - (D) That occurs in regions with winter rain and summer drought which is naturally subjected to fires and adapted to the fires



23.	Therapeutic Index is expressed as									
	(A)	LE) ₅₀ /7	ГD ₅₀			(B) LD_{50}/ED_{50}			
	(C) TD_{50}/LD_{50}						(D) TD_{50}/ED_{99}			
24.		-			y crosse ecule si		blood-brain barrier by combining with cysteine and to			
	(A)	Gl	ycin	e			(B) Glutamine			
	(C)	Та	urin	e			(D) Methionine			
25.	Wh	ich	of t	he fo	ollowing	g is ar	n example for keystone species ?			
	(A)	Se	a oti	ter			(B) Sea urchin			
	(C)	Sr	ail c	larte	er		(D) Spotted owl			
26.	Ma	tch	Col	umr	n – I wit	h Col	umn – II and select answer using answer code.			
		Co	lum	n –	I		Column – II			
	a.	Mi	crot	hern	ns	1.	Require very low temperature and can stand very severe long winters			
	b.	Me	sotl	nerm	ıs	2.	Require high degree of heat throughout the year			
	c.	Me	egatl	nerm	ıs	3.	cannot tolerate high temperature			
	d.	На	kist	othe	rms	4.	4. Cannot tolerate high rainfall			
						5.	Requires moderate temp. for their growth			
		a	b	c	đ					
	(A)	3	5	2	1					
	(B)	5	4	2	3					
	(C)	1	5	2	3					
	(D)	4	3	2	5					
27.	Wh	ich	one	of t	he follo	wing	statement is false?			
	(A)		~				pic level is determined by considering individuals pic level			
	(B)	Pl	nyto	plan	kton ar	e the	pioneers in the aquatic ecosystem			
	(C)	Ra	ite o	f suc	ccession	n is fa	ster in secondary succession			
	(D)		ianti andi	-		ss in	a tropic level at a particular period is known as			



28. Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A): As per equilibrium theory of Island biogeography, distance of the Island from the mainland determines the dispersal rate of a new species.

Reason (R): Size of an Island is important in determining number of species. Choose the correct answer:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct and (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true
- 29. Which of the following are nitrogen fixing organisms?
 - (A) Nitrosomonas and Azotobactor (B) Nitrobacter and Rhizobium
 - (C) Nitrosomonas and Rhizobium (D) Azotobacter and Rhizobium
- **30.** No two different species can occupy same niche. This principle was put forth by
 - (A) Darwin

(B) Malthews

(C) Gause

(D) Linderman

- **31.** What is geostrophic wind?
 - (A) Wind generated due to imbalance between pressure gradient force and coriolis force
 - (B) Wind generated due to balance between pressure gradient force and coriolis force
 - (C) Wind generated from geothermal energy
 - (D) Wind flowing in stratosphere
- 32. Authigenic sediments form within oceans due to
 - (A) Chemical reaction

(B) Geological processess

(C) Biological production

(D) Physical processess

- 33. Darcy's law helps hydrologist to estimate
 - (A) Age of the sediment rocks

(B) Water flow in a porous medium

(C) Formation of archean rocks

(D) Texture of rocks



34.	Which is an example for sedimentary	y biogeochemical cycle?					
	(A) Oxygen cycle	(B) Nitrogen cycle					
	(C) Water cycle	(D) Phosphorus cycle					
35.	Howaiian type, strombolian type, ve	suvian type are types of					
	(A) Rocks	(B) Cyclones					
	(C) Flood control	(D) Volcano					
36.	Which one of the following was a suj	per typhoon ?					
	(A) Tohuku	(B) Phallini					
	(C) Harvey	(D) Haiyan					
37.	Which of the following is false regard	ling kerogens?					
	(A) Kerogen is the organic componer	nt of oil stale					
	(B) Kerogen is the organic component	nt found in sedimentary rocks					
	(C) Kerogen is converted into liquid and gaseous hydrocarbons via catagenesis						
	(D) Catagenesis converts hydrocarbo	ons to kerogens					
38.	Olivine, garnet, Pyroxene, Amphiboloforming minerals.	e are examples for rock					
	(A) Carbonate	(B) Basalt					
	(C) Phosphorous	(D) Silicate					
39.	Which of the following statements is	true regarding weathering process?					
	(A) Minerals are formed by weather	ing of clay					
	(B) Atmospheric oxygen causes redu	ictive weathering					
	(C) Sedimentary rock undergoes we	athering to form metamorphic rock					
	(D) Weathering is slow in dry air						
40.	Which of the following is false with r	respect to coriolis force ?					
	(A) Coriolis force is zero at the equa	tor					
	(B) Coriolis force acts perpendicular	to pressure gradient force					
	(C) Coriolis force deflects the wind towards left in the southern	wards the right in the northern hemisphere hemisphere					
	(D) Coriolis force is due to earth's re	-					



41.	Methane extracted from coal beds is called									
	(A) Coal gas						(B) Sweet gas			
	(C) Coal bed methane					е	(D) Sweet gas, coal bed methane			
42.	The	e co	olar	ıt us	ed in f	ast	breeder reactor is			
	(A)	Mo	olten	ı Na			(B) Carbon dioxide			
	(C)	W	ater				(D) Helium			
42	Wh	at i	nra t	ho t	hree F	. תם	pillars of sustainable development ?			
73.							d Ergonomics			
	` '		_	•	•		ny and Evolution			
	• •						and Evolution			
	` '			-	_		d Environment			
	X 7 7 1 .	. 1.	- F A	1 C.	- 11 :		harman large should be MANDE 2			
44.					ощоwin	g sc	hemes was launched by MNRE?			
			VRE				(B) UJJWALA			
	(C)	ĸι	JSUI	IVI			(D) JWALA			
45.	Ma	tch	Col	umr	ı – I wit	th C	olumn – II and select answers using answer code.			
		Co	lum	n –	I		Column – II			
	a.	Lig	nite	:		1.	Coal with no moisture content			
			tume			2.	Precursor of coal			
	c.	An	thra	cite			Primary fuel for converting steam into electricity			
	d.	Pe	at				Soft coal with volatile matter content			
						5.	Hard coal with volatile matter content			
		a	b	C	d					
	(A)		3	1	2					
	(B)		4	3	1					
	(C)			5 2	4 5					
	(D)	4	3	4	3					
46.	Wh	y is	salt	add	ed in so	lar j	ond with concentration increasing towards the depth?			
	(A)	То	incı	reas	e dissij	patio	on of sun's heat from the surface			
	(B)	То	pur	ify w	vater in	the	e solar pond			
	` '		•		_		not water to the surface			
	(D) To make water clear and transparent									



47.	47. Which of the following sets represents renewable energy resources? (A) Petroleum, geothermal, wind (B) Biomass, geothermal, hydrop									
	(C) Solar, wind, biomass	(D) Hydropower, solar, wind energy								
48.	Gasification of biomass results in									
	(A) Complete combustion to produc	2								
	(B) Incomplete combustion to produce CO and steam									
	(C) Complete combustion to produc	=								
	(D) Incomplete combustion to produ	ace CO, hydrogen and methane								
49.	An industry uses natural gas for ma produce electricity. This is an exam	-								
	(A) Reclamation	(B) Remediation								
	(C) Co-generation	(D) Circular economy								
50.	Principle of wind power generation i	involves								
	(A) Conversion of kinetic energy of energy	wind to mechanical energy to electrical								
	(B) Conversion of potential energy of	of wind to electrical energy								
	(C) Conversion of kinetic energy of energy	wind to thermal energy to electrical								
	(D) Conversion of potential energy of energy	of wind to mechanical energy to electrical								
51.	Measurement and rating of noise in accepted by ISO is	residential, traffic and industrial areas								
	(A) L ₁₈	(B) L _{eq}								
	(C) L _{DN}	(D) TNI								
52 .	Acrolein is									
	(A) Aldehyde	(B) Ketone								
	(C) Carboxylic acid	(D) Ester								
53.		sertion (A) and Reason (R). Find the correc								
	statement by using the codes.									
	Assertion (A) : At a constant temper increases with decrease in pH.	rature, the solubility of ammonia in water								
	Reason (R): The solubility of all ga	ses increases with decrease in pH.								
	(A) Both (A) and (R) are correct and	(R) is correct explanation of (A)								
		(R) is not the correct explanation of (A)								
	(C) (A) is true, but (R) is false	• • • • • • • • • • • • • • • • • • • •								

(D) (A) is false, but (R) is true



54.	Which of the following radio nuclide	
	(Å) Cs ¹³⁷	(B) Sr ⁹⁰
	(C) Pb ²¹⁰	(D) C^{14}
55.	'Knock-knees Syndrome' is caused b	by the toxicity of
	(A) Fluoride	(B) Cadmium
	(C) Chloride	(D) Arsenic
56.	Fastest technique for measuring Org	ganic Carbon is
	(A) COD	(B) BOD
	(C) TOC	(D) DO
57.	Tainting in marine pollution is relate	ed to
	(A) Unpleasant task of water due to	oil slicks
	(B) Unpleasant colour of water due	to oil slicks
	(C) Unpleasant flavour of seafood du	ie to oil slicks
	(D) Change in colour of sea animals	due to oil slicks
58.	Degradation of different categories o	f pesticides by soil micro-organisms is
	(A) Biomineralization	(B) Biotransformation
	(C) Biomagnification	(D) Bioaugmentation
59 .	Catalytic converters used for reducing	ng vehicular emission are
	(A) Four way converters that reduce	SO_x , CO, Hydrocarbons and NO_x
	(B) Three way converters that reduce	e SO _x , CO and Hydrocarbons
	(C) Two way converters that reduce	
	(D) Three way converters that reduc	
60.	Which one of the following is a sensi	itive indicator of SO ₂ ?
	(A) Poa annua	(B) Taxus baccata
	(C) Petunia	(D) Mangifera indica
61.	Incomplete combution of waste mate	erial leads to formation of
	(A) CO ₂	(B) CNG
	(C) Sulphur	(D) Dioxin
62 .	F-type of waste is	
	(A) Non-specific source waste produ	ced by multiple industries
	(B) Unused discarded materials con	taining one hazardous ingredient
	(C) Waste generated by specific indu	strial process
	(D) Produced by natural processes	
	· · · · · · · · · · · · · · · · · · ·	



63.	Fly ash is classified as	(D) Class D
	(A) Class – C	(B) Class - D
	(C) Class – F	(D) Class – C and Class – F
64.	Which of the following methods man waste effectively?	lages liquid or solid hazardous organic
	(A) Sanitary landfill	(B) Bioremediation
	(C) Plasma incineration	(D) Open incineration
65.	Pellet fuels are a type of solid fuel m	ade from compressed
	(A) Inorganic material	(B) Organic material
	(C) Bio-inorganic material	(D) Organic and inorganic material
66.	Which of the following types of coal:	has maximum ash content (%) ?
	(A) High volatile bituminous	(B) Sub bituminous
	(C) Anthracite	(D) Lignite
67.	Which of the following hazardous po	llutant is released from batteries?
	(A) Arsenic	(B) Barium
	(C) Cadmium	(D) Cobalt
68	Biogas produced by the anaerobic d	igestion is a mixture of
	(A) CO_2 , SO_2 , N_2O , CH_4 and H_2O	
	(B) CO ₂ , NH ₃ , C ₂ H ₅ OH and H ₂ O	
	(C) CH_4 , CO_2 , NH_3 , H_2S and H_2O	
	(D) CO, CO ₂ , H_2S , CH_4 and natural H_2S	mas
	(D) CO, CO ₂ , Π_2 S, C Π_4 and Π attiral	gas
69.	is a widely used treatm hazardous waste.	ent method for metal containing
	(A) Neutralization	(B) Precipitation
	(C) Incineration	(D) Precipitation and Incineration
	(c) memeration	(b) I recipitation and memeration
70.	Embedding hazardous waste in glas	
	(A) Vitrification	(B) Fusion
	(C) Plasticization	(D) Vulcanisation
71.	Coastal Regulation Zones (CRZ) Act	was launched in the year
	(A) 1981	(B) 1991
	(C) 2001	(D) 2011



- **72.** Select the correct sequence with reference to Environmental Management System ISO1401.
 - (A) Environmental policy → Implementation and operation → Checking and corrective action → Management review
 - (B) Implementation and operation → Checking and corrective action → Management review → Environmental policy
 - (C) Implementation and operation → Environmental policy → Checking and corrective action → Management review
 - (D) Checking and corrective action → Management review → Implementation and operation → Environmental policy
- **73.** Four stages viz. initiation, inventory analysis, impact assessment and improved assessment are associated with
 - (A) Environmental impact assessment
 - (B) Local committee assessment
 - (C) Environmental impact statement
 - (D) Environmental audit
- 74. The following steps are adapted during Life Cycle Analysis.
 - I. A practitioner will set metrics to quantify the different inputs and outputs.
 - II. A life cycle inventory assessment is performed.
 - III. A life cycle inventory is made.
 - IV. Goal and scope is identified.
 - V. Interpretation, critical review and reporting.

The correct sequence of the steps is

- (A) IV, II, III, I, V
- (B) IV, I, III, II, V
- (C) III, II, IV, V, I
- (D) III, II, IV, I, V
- 75. Which among the followings are objectives of Environmental Audit Report?
 - I. Provide an objective analysis of the environmental impacts arising from a project or facility.
 - II. Determine that mitigation measures are effective in minimizing or removing environmental impacts.
 - III. Identify opportunities and make recommendations for improvements in environmental performance of the project or facility.

Choose the correct option:

(A) I and II only

(B) II and III only

(C) I, II and III

(D) I and III only



4.YW											
76.			the r co		ımn – I with Co	lumn – II	and select the correct answer using				
		Co	lum	ın –	I	Column – II					
	a.	Im	pact	t ide	ntification	1	. Magnitude				
	b.	Im	pact	t me	asurement	2	. Specificity				
	c.	Im	pact	t cor	nmunication	3	. Depth of analysis				
	d.	Im	- pact	t inte	erpretation	4	. Comprehensive overall perspective				
			-		-	5. Public hearing					
		a	b	c	d		Ü				
	(A)	1	4	5	2						
	(B)	2	1	4	3						
				1							
	(D)	4	3	2	1						
77.	 During the EIA process under EIA notification of 14th September 2006, no public hearing is required for All A category projects. All B₁ category projects. All B₂ category projects. 										
	Coc (A)					(B) I and II					
			ind :	III		•	Only III				
70	` .					•	,				
10.			i cna icle		of environmen		onstitution of India is embodied in				
	٠,,			49 <i>I</i>	\	•) Article 48 A) Article 51 A				
	` .					•	•				
79.					to E-waste Mai	nagement	Rules, consider the following				
	 Statements. These are notified by the Ministry of Electronics and Information technology. 										
	2.	Th	ese a	are 1	not applicable to	o refurbis	hers, dismantles and recycles.				
	 Deposit Refund Scheme and Exchange is an additional channel for implementation of Extended Producer Responsibility (EPR). 										
	4.				l bodies are ma iplementation o		prepare an integrated plan for visions.				
	Wh				tatements giver	-					
	(A)	1,	2 an	d 3	only	(B) 1, 2 and 4 only				
	(C)	2,	3 ar	nd 4	only	(D	(D) 1, 2, 3 and 4				



80.	Scheduled Tribe and Traditional For Rights) Act, came into effect in the y	tional Forest Dwellers (Recognition and Forest ct in the year	
	(A) 2006	(B) 2000	
	(C) 1996	(D) 1972	
81.	A statistical measure that identifies entire distribution is	a single score as representative for an	
	(A) Central tendency	(B) Mean	
	(C) Dispersion	(D) Centroid	
82.	Which of the following is true for an asymmetric distribution that is positively skewed?		
	(A) Mean > median > mode	B) Median > mode > mean	
	(C) Mean = median = mode	(D) Mode > median > mean	
83.	. The smallest unit into which population can be divided are called		
	(A) Elements	(B) Clusters	
	(C) Areas	(D) Segments	
84.	by 1 unit (holding x ₂ constant), y wi		
	(A) Increase by 3 units	(B) Increase by 4 units	
	(C) Decrease by 3 units	(D) Decrease by 4 units	
85.	In statistics, what is the normal value of Kurtosis?		
	(A) 1	(B) 3	
	(C) 5	(D) 2	
86.	The range of f-test statistic value is (A) 0 to 1 (B) 0 to infinity		
	(C) Negative infinity to positive infin(D) -1 to +1	ity	
87.	If the average of a series of values is coefficient of variation is	10 and their variance is 4, then the	
	(A) 40%	(B) 20%	
	(C) 10%	(D) 80%	
88.	change in density (N) per unit time (A) k^2	and approaching carrying capacity (k). The (dN/dt) is maximum when N equals to (B) k/2	
	(C) k	(D) 1/k	
		•	



89.	Chi-square test can be applied to dis (A) Poisson (C) Logarithmic	screte distribution such as (B) Bionomial (D) Poisson and binomial	
90.	In a study, subjects are randomly assigned to one of three groups: i) control, ii) experimental A and iii) experimental B. After treatment, the mean scores for the three groups are compared. The appropriate statistical test for comparing these means is		
	(A) Correlation coefficient	(B) Chi-square	
	(C) t-test	(D) Analysis of variance	
91.	The implementing agency of sea turt	e implementing agency of sea turtle project was	
	(A) WII, Dehradun	(B) NIO, Goa	
	(C) FRI, Dehradun	(D) NIOT, Kochi	
92.	The term 'MIKE' stands for		
	(A) Monitoring of Illegal Killing of Elephants(B) Monitoring of Illegal Killing of Eagles(C) Monitoring of Illegal Killing of Egret		
	(D) Monitoring of Illegal Killing of En		
	CDVIA 1	G	
93.	GRIHA was setup by (A) The Energy and Resources Institute (TERI) (B) Ministry of New and Renewable Energy (MNRE)		
		Ministry of Construction and Buildings (MCB)	
	(D) TERI and MMRE		
94.	Gandhamardhan Hills are well known for		
	(A) Teak wood	(B) Sandalwood	
	(C) Trekking	(D) Medicinal plant	
95.	Difficulty in swallowing, breathing are symptoms of		
	(A) Fluorosis	(B) Arsenocosis	
	(C) Goitre	(D) Dengue	
96.	New Vehicular Emission norms BS-6 is also known as (A) Rear driving emission norms		
	(B) Real driving emission norms		
	(C) Cumulative emission norms		

(D) Calculated emission norms



97. Match the Column - I with Column - II and select answers using answer code. Column - I Column - II a. Love canal disaster 1. 1984 b. Bhopal gas disaster 2. 1986 3. 2011 c. Chernobyl disaster d. Fukushima Daiichi nuclear disaster 4. 2001 5. 1970 а b C đ (A) 2 1 5 (B) 3 1 2 4 (C) 5 1 2 3 3 (D) 4 1 2 98. Dewas filter system was introduced in (A) Nagaland (B) Mizoram (C) Madhya Pradesh (D) Maharashtra **99.** One chlorine molecule can distroy _____ molecules of ozone. $(A) \sim 100$ $(B) \sim 1000$ $(C) \sim 10000$ (D) ~ 100000 100. In which Conference of Parties (COP), rules for guiding the countries to fulfill their Nationally Determined Contribution (NDCs) was provided (A) COP-21, Paris (B) COP-22, Morocco (C) COP-23, Germany (D) COP-24, Poland