Test Booklet No.

Subject: Environmental Studies

Code : 307 E (New)

Medium : English



(Do not open this Test Booklet until you are asked to do so)

Time Allowed : 45 minutes	Maximum Marks : 200	Total Questions : 50	Number of questions to be answered : 40					
Kindly read the Instructions given on this Page and Back Page carefully before attempting this Question Paper.								
mportant Instructions for the Candidates :								
	= =	=	the candidate is required to answer any inswered questions will be considered for					
2. When you are given the O	OMR Answer Sheet, fill in	n your particulars on it car	efully with blue/black ball point pen only.					
3. Use only Blue/Black Ball	Point Pen for marking re	sponses.						
on this Test Booklet. Also of discrepancy, the candi	o ensure that your Test Bo date should immediately	ooklet No. and OMR Answ report the matter to the Ir	the OMR Answer Sheet is the same as that wer Sheet No. are exactly the same. In case a wigilator for replacement of both the Test ned after five minutes from the start of the					
consists of one sheet. At	the start of the examination	on within first five minute	as total 16 pages and OMR Answer Sheet s, candidates are advised to ensure that all are not damaged in any manner.					
•	•	se four options choose the IR Answer Sheet with a B	e MOST APPROPRIATE OPTION and lue/Black Ball Point Pen.					
, ,	d darkened/blackened fo	* *	educted for each incorrect answer. If more l be considered as an incorrect answer. P.T.O.					
Name of the Candidate (in	_							
Application Number (in fig	gures) :							
Roll Number (in figures)):							
Centre of Examination (in	Capital Letters):							
Candidata's Cimatuma.		Invigilator's Signatus						

Facsimile signature stamp of Centre Superintendent:



307	E (Ne	ew)/A (2)					
1.	The	disease "Itai-Itai" is caused by contamination	of dri	nking water with which of the following?				
	(1)	Mercury	(2)	Cadmium				
	(3)	Arsenic	(4)	Chromium				
2.	Whi	ich of the following are essentially required fo	r phot	ochemical smog formation in ambient atmosphere ?				
	(1)	Smoke, water vapour and low temperature (< 25 de	egree)				
	(2)	NO_x , SO_2 and high temperature (> 25 degree	e)					
	(3)	NO _x , VOCs and high temperature (> 25 deg	ree)					
	(4)	Smoke, NO _x and low temperature (< 25 deg	ree)					
3.	Arra	ange the following stages of primary succession	on of p	lants from last stage to first stage :				
	(A)	Reed-swamp stage	(B)	Submerged plant stage				
	(C)	Marsh Meadow stage	(D)	Phytoplankton				
	Cho	ose the correct answer from the options given	below	': \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	(1)	(A), (B), (C), (D)	(2)	(C), (A), (B), (D)				
	(3)	(D), (B), (A), (C)	(4)	(A), (C), (B), (D)				
4.	Whi	Which of the following factors can affect the soil respiration process?						
	(A)	Temperature						
	(B)	Soil moisture						
	(C)	Aeration						
	(D)							
	(E)	Quality of organic matter in the soil						
	Cho	ose the correct answer from the options given	below	<i>'</i> :				
	(1)	(A), (C) and (E) only	(2)	(A), (B), (C) and (D) only				
	(3)	(B), (C) and (D) only	(4)	(A), (B), (C), (D) and (E)				
5.	Whi	ich of the following is not a criteria a	r poll	utant under the National Ambient Air Quality				
	Star	ndards (NAAQS) ?						
	(1)	CO_2	(2)	CO				
	(2)	0	(4)	Dh				

6. Match List-I with List-II:

	List-I		List-II
	(Forest Act/Policy)		(Year)
(A)	Forest Act	(I)	1927
(B)	National Forest Policy	(II)	1988
(C)	Forest Conservation Act	(III)	1980
(D)	Wildlife Protection Act	(IV)	1972

Choose the correct answer from the options given below:

- (1) (A) (I), (B) (II), (C) (III), (D) (IV)
- (2) (A) (II), (B) (III), (C) (I), (D) (IV)
- (3) (A) (IV), (B) (II), (C) (III), (D) (I)
- (4) (A) (III), (B) (I), (C) (II), (D) (IV)

7. Arrange the following from lowest to highest dry weight in a biomass pyramid of a grassland ecosystem:

- (A) Primary Producer
- (B) Primary Consumer
- (C) Secondary Consumer
- (D) Tertiary Consumer

Choose the correct answer from the options given below:

(1) (A), (B), (C), (D)

(2) (A), (C), (B), (D)

(3) (D), (C), (B), (A)

(4) (D), (C), (A), (B)

- (1) organic farming practices
- (2) water network projects implementation
- (3) integrated transport network system
- (4) solid waste disposal system

307	E (Ne	ew)/A	(4)	
9.	Whi	ich of the following gases give the lowest per	centage	contribution to total global warming?
	(1)	N_2O	(2)	NO_2
	(3)	CFCs	(4)	CH ₄
10.	Non	madic movements are not considered as mi	grations	because people move from one place to another
	(1)	for economic reasons	(2)	for social factors
	(3)	without any intention	(4)	for phyical reasons
11.		ich of the following does not explain the elopment?	relation	ship between human development and economic
	(1)	Capability expansion through economic gro	wth	
	(2)	Capability expansion through poverty reduc	ction	
	(3)	Capability expansion through social service	s	
	(4)	Capability expansion through environmenta	ıl degrad	dation
12.	The	Gandhian economy model does not contain	element	s of
	(1)	multiplication of needs	(2)	rejection of class-war
	(3)	protectionism	(4)	nationalism
13.	Whi	ich of the following method is most suitable t	for safe	disposal of hospital solid waste?
	(1)	Dumping	(2)	Incineration
	(3)	Pyrolysis	(4)	Composting
14.	Arra	ange the following processes from start to er	nd in a f	ood distribution system :
	(A)	Packaging of food	(B)	Processing of food
	(C)	Storage of food	(D)	Marketing of food
	Cho	oose the correct answer from the options give	n below	:
	(1)	(A), (B), (C), (D)	(2)	(C), (B), (A), (D)
	(3)	(A), (B), (D), (C)	(4)	(C), (B), (D), (A)

15. Which one of the following is an *incorrect* statement in the context of Gross Domestic Product (GDP)?

- (1) GDP does not measure the sustainability of growth.
- (2) GDP helps to undersatnd whether economy is growing or contracting.
- (3) GDP reflects annual trends of inflation and prices of commodities.
- (4) GDP helps to understand shift in the annual changes in the country's economy.

16. Match List-I with List-II:

	List-I		List-II
	(Protocol/Convention)		(Year)
(A)	Kyoto Protocol	(I)	1987
(B)	Montreal Protocol	(II)	1997
(C)	Bamako Convention	(III)	1989
(D)	Basel Convention	(IV)	1998

Choose the correct answer from the options given below:

- (1) (A) (IV), (B) (I), (C) (II), (D) (III)
- (2) (A) (IV), (B) (I), (C) (III), (D) (II)
- (3) (A) (I), (B) (IV), (C) (III), (D) (II)
- (4) (A) (II), (B) (I), (C) (IV), (D) (III)

17. Petroleum present in sedimentary rocks of a region can only be used when such regions are drilled out and put into use. Such petroleum reserves fall under the category of _______.

- (1) Actual resources
- (2) Potential resources
- (3) Stock resources
- (4) Reserve resources

307	E (Ne	ew)/A	(6)	
18.	Whi	ch of the following "water storage" types a	re commo	only used in Bihar ?
	(A)	Bhundhis	(B)	Ahar
	(C)	Kulhs	(D)	Pynes
	Cho	ose the correct answer from the options giv	en below	:
	(1)	(A) and (C) only	(2)	(B) and (D) only
	(3)	(A) and (B) only	(4)	(C) and (D) only
19.	The	diversity of organisms that shares the same	commun	ity/habitat is called as
	(1)	Beta diversity	(2)	Gamma diversity
	(3)	Alpha diversity	(4)	Genetic diversity
20.	Whi	ch of the following is <i>not</i> a basic pillar of s	ustainabl	e development ?
	(1)	Environmental preservation	(2)	Social equity
	(3)	Economic growth	(4)	Urbanisation
21.	Whi	ch of the following is a Kharif crop?		
	(1)	Wheat	(2)	Rice
	(3)	Cucumber	(4)	Mustard
22.	The	concept of Joint Forest Management does	not includ	le:
	(1)	Government works closer with local peop	le to man	age forests.
	(2)	Locals use forest resources in response to	protecting	g forest ecosystem.
	(3)	The infrastructure development at the cost	of forest	resources.
	(4)	Sustainable conservation of forests.		
23.	The as:	ability of the environment to absorb and re	ender rem	oval of harmless waste and pollution is referred to
	(1)	source function of ecosystem		
	(2)	sink function of ecosystem		
	(3)	carrying capacity of ecosystem		
	` ′	ontimal canacity of ecosystem		



307 I	E (Ne	w)/A	(7)	
24.	Whi	ch of the following is the main characteristic	of perp	etual resources ?
	(1)	Consumption at very fast rate	(2)	Continuous availability at limited rate
	(3)	Unconditional availability	(4)	Not formed naturally
25.	Arra	ange the following radiation in increasing ord	ler of th	eir wavelength :
	(A)	UV-C		
	(B)	UV-B		
	(C)	UV-A		
	(D)	Infra-red		
	(E)	Microwave		
	Cho	ose the correct answer from the options give	n below	
	(1)	(C), (B), (A), (D), (E)	(2)	(A), (B), (C), (E), (D)
	(3)	(A), (B), (C), (D), (E)	(4)	(E), (D), (C), (B), (A)
26.		ee-keeper in an orchard enables pollination a mple of	nd ferti	lisation of the orchards' shrubs and trees. This is an
	(1)	negative production externalities	(2)	negative consumption externalities
	(3)	positive production externalities	(4)	positive consumption externalities
27.	Arra	ange the atmospheric layers starting from the	Earth's	surface upwards :
	(A)	Mesosphere		
	(B)	Stratosphere		
	(C)	Stratopause		

- (D) Mesopause
- (E) Troposphere

Choose the correct answer from the options given below:

(1) (E), (C), (B), (D), (A)

(2) (E), (C), (B), (A), (D)

(3) (E), (B), (C), (A), (D)

(4) (E), (B), (C), (D), (A)

307 1	E (New)/A	(8)
28.	Which of the following is associated with O	Ozone destruction in Stratosphere ?
	(A) CFCs	
	(B) Polar stratospheric clouds	
	(C) UV-B	
	(D) UV-A	
	(E) Cl radicals	
	Choose the correct answer from the options	s given below:
	(1) (A) and (E) only	(2) (A), (B) and (E) only
	(3) (A), (C) and (D) only	(4) (A), (B), (C) and (E) only
29.	Which of the following are examples of res	ources ?
	(A) Materials	(B) Energy
	(C) Knowledge	(D) Services
	Choose the correct answer from the options	given below:
	(1) (A) and (D) only	(2) (A), (B) and (D) only
	(3) (A), (B) and (C) only	(4) (A), (B), (C) and (D)

30. Which of the following treaty prohibits the import of any hazardous waste (including radioactive waste) into African nations only?

(1) The Basel Convention

The Capetown Convention

The Bamako Convention

The Madagascar Convention

Read the following passage and answer the next five questions:

Agricultural runoff, sewage and industrial effluents are major causes of deterioration of water quality in lakes and ponds. Productivity of lakes and ponds (for example algal bloom and phytoplankton bloom) increases manifold due to agricultural runoff as well as due to excess inputs of nutrients including limiting nutrients, but this continuous increased productivity leads to death of lakes and ponds. The dissolved oxygen, BOD, temperature, turbidity and salinity are important parameters of water quality in a lake and change naturally on day and night basis as well as seasonal basis. But, anthropogenic inputs change these parameters abruptly and adversely impact water quality of the lakes. As a result, water in lakes and ponds does not remain fit for human consumption as well as for livestock. Immediate attention and affirmative actions are needed to protect lakes and ponds in our environment.



307 E	E (Ne	ew)/A (9)		
31.	Con	ntinuous increase of productivity of lakes eventually	ca	auses:
	(1)	Biomagnification in lakes		
	(2)	Bioaccumulation in lakes		
	(3)	Eutrophication in lakes		
	(4)	Bioconcentration in lakes		
32.	Diss	ssolved oxygen in water		
	(1)	remains constant in winter and summer		
	(2)	remains low in winter and high in summer		
	(3)	remains high in winter and low in summer		
	(4)	doesn't depend on temperature of water		
33.	Exc	cess suspended particles in lake water due to agricult	tur	ral runoff result in :
	(1)	high salinity.		
	(2)	high turbidity.		
	(3)	high dissolved oxygen.		
	(4)	high BOD.		
34.	Wat	ter in lakes having very high algal and phytoplankto	n	growth is expected to have:
	(1)	high dissolved oxygen.		
	(2)	high dissolved oxygen and high BOD.		
	(3)	low dissolved oxygen and high BOD.		
	(4)	low dissolved oxygen and low BOD.		
35.	Whi	nich of the following is a limiting nutrient in lakes an	nd	ponds?
	(1)	Iron (2))	Phosphorus
	(3)	Magnesium (4))	Sulphur



307 E (New)/A (10)

Read the following passage and answer the next five questions:

Species interaction and the productivity are two important components of any given ecosystem. In an ecosystem, interspecific interactions arise from the interaction of population of two different species. Such interactions could be beneficial to both species, harmful to both species, beneficial to one and harmful to other or vice-versa. There are also cases that exist where only one species is harmed or benefitted and the other remains unaffected. On the other hand, productivity of an ecosystem starts with photosynthesis by green plants and is measured as amount of biomass produced over a period of time. Such biomass becomes available for consumption to heterotrophs.

36.	The	available biomass for consumption to herbivor	es an	d decomposers is often referred to as:
	(1)	Primary production		
	(2)	Gross primary productivity		
	(3)	Net primary productivity		
	(4)	Secondary productivity		
37.	Rate	e of production of organic matter during photos	ynthe	sis is referred to as:
	(1)	Primary production	(2)	Gross primary productivity
	(3)	Net primary productivity	(4)	Standing crop
38.		ich of the following are correct for the interaction fish? Both species are benefitted Both are harmed One is harmed and the other is benefitted One is benefitted and the other remains unaffer		etween sea anemone that has stinging tentacles and
39.	The	species interaction in which both interacting sp	ecies	are harmed is referred to as:
	(1)	Predation	(2)	Parasitism
	(3)	Competition	(4)	Mutualism
40.	Мус	corrhizal association between fungi and the root	ts of l	nigher plants is best referred to as:
	(1)	Commensalism	(2)	Amensalism
	(3)	Mutualism	(4)	Competition

41. Match List-I with List-II:

	List-I		List-II
	(Author)		(Book/Poem)
(A)	Gary Snyder	(I)	Mountains and Rivers Without End
(B)	Wendell Berry	(II)	The Closing Circle
(C)	Rachel Carson	(III)	Silent Spring
(D)	Barry Commoner	(IV)	A Place on Earth

Choose the correct answer from the options given below:

- (1) (A) (IV), (B) (I), (C) (III), (D) (II)
- (2) (A) (I), (B) (IV), (C) (III), (D) (II)
- (3) (A) (II), (B) (IV), (C) (III), (D) (I)
- (4) (A) (IV), (B) (II), (C) (III), (D) (I)

42. Match List-I with List-II:

	List-I		List-II
	(Concept)		(Proposed by)
(A)	Ecology	(I)	Norman Myers
(B)	Ecosystem	(II)	Ernst Haeckel
(C)	Human population growth	(III)	Sir Arthur Tansley
(D)	Hot spots	(IV)	T R Malthus

Choose the correct answer from the options given below:

- (1) (A) (I), (B) (IV), (C) (II), (D) (III)
- (2) (A) (I), (B) (II), (C) (III), (D) (IV)
- (3) (A) (II), (B) (III), (C) (IV), (D) (I)
- (4) (A) (IV), (B) (I), (C) (III), (D) (II)

307	(New)/A (12)
13.	The ecological thought, which believes in saving the forests as trees give oxygen, better rainfall and air quality and not saving the environment for its true innate values, dominantly belongs to
	1) Deep ecology
	2) Social ecology
	3) Eco-feminism
	4) Shallow ecology
14.	Which of the following is <i>not</i> a major goal of WWF?
	To conserve world biological diversity
	2) Sustainable use of renewable natural resources
	3) Reduction of pollution and wasteful consumption
	4) Creating world wide fund for education
15.	The first Earth Day was celebrated on
	1) 20 April, 1970
	2) 22 April, 1970
	3) 05 June, 1970
	4) 20 April, 1972
16.	The plants and animals that cannot maintain a constant internal environment, are called:
	1) Regulators
	2) Migraters
	3) Conformers
	4) Suspenders
17.	The number of individuals of the same species that have come into a habitat from elsewhere during the time period under consideration is referred to as
	1) Emigration
	2) Immigration
	3) Natality

SPACE FOR ROUGH WORK

(4) Mortality



- **48.** Which of the following statements are correct?
 - (A) Species that invade a bare area are called as pioneer species.
 - (B) In primary succession on rocks, the pioneers are usually lichens.
 - (C) In primary succession in water, the pioneers are reed swamps.
 - (D) In secondary succession, species that invade depend on condition of soil, water and environment.

Choose the correct answer from the options given below:

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

49. Match List-II with List-II:

	List-I	List-II					
	(State)		(Nat <mark>ional</mark> Park)				
(A)	Madhya Pradesh	(I)	Namdapha National Park				
(B)	Arunachal Pradesh	(II)	Guindy National Park				
(C)	Meghalaya	(III)	Nokrek National Park				
(D)	Tamil Nadu	(IV)	Kuno National Park				

Choose the correct answer from the options given below:

- (1) (A) (IV), (B) (I), (C) (III), (D) (II)
- (2) (A) (IV), (B) (III), (C) (II), (D) (I)
- (3) (A) (IV), (B) (I), (C) (II), (D) (III)
- (4) (A) (I), (B) (IV), (C) (II), (D) (III)
- **50.** Which of the following soil has high water retention capacity?
 - (1) Sandy soil

(2) Loamy soil

(3) Sandy silt soil

(4) Clayey soil

307 E (New)/A (14)





307 E (New)/A (15)





307 E (New)/A (16)

Read carefully the following instructions:

- 8. No candidate will be allowed to leave the OMR Answer Sheet blank. If any OMR Answer Sheet is found blank, it shall be crossed by the Invigilator with his/her signature, mentioning "Cancelled" on it.
- 9. Do not tear or fold any page of the Test Booklet and OMR Answer Sheet.
- 10. Candidates are advised to ensure that they fill the correct particulars on the OMR Answer Sheet, i.e., Application No., Roll No., Test Booklet No., Name, Mother's Name, Father's Name and Signature.
- 11. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- 12. The answers will be evaluated through electronic scanning process. Incomplete or incorrect entries may render the OMR Answer Sheet invalid.
- 13. Candidates are advised not to fold or make any stray marks on the OMR Answer Sheet. Use of Eraser, Nail, Blade, White Fluid/Whitener, etc., to smudge, scratch or damage in any manner the OMR Answer Sheet during examination is strictly prohibited. Candidature and OMR Answer Sheet of candidates using Eraser, Nail, Blade or White Fluid/Whitener to smudge, scratch or damage in any manner shall be cancelled.
- 14. There will be one copy of OMR Answer Sheet i.e., the Original Copy. After the examination is over, the candidate shall hand over the OMR Answer Sheet to the Invigilator. The candidate can take away the Test Booklet after the examination is over. If the candidate does not hand over the OMR Answer Sheet to the Invigilator and goes away with the OMR Answer Sheet, his/her candidature shall be cancelled and criminal proceedings shall also be initiated against him/her.
- 15. Candidates are advised strictly not to carry handkerchief, any mobile phone, any type of watch, belt or wear ornaments like ring, chain, ear-ring, etc., electronic or communication device, pen, pencil, eraser, sharpener and correction fluid to the Examination Centre. If any candidate is found possessing any such item, he/she will not be allowed to enter the examination centre. Possession of a mobile phone or any other aiding material as mentioned above by the candidate in the examination room will be treated as a serious violation and it may lead to cancellation of the candidature and debarring him/her from future examinations.
- 16. If a candidate violates any instructions or shows any indiscipline or misbehaviour, appropriate action will be taken including cancellation of candidature and debarring from future examinations.
- 17. Use of electronic/manual calculator is **not** allowed.



NATIONAL TESTING AGENCY CUET (UG) 2024 : Final Answer Keys

Exam Date: 29.05.2024 Subject: 306 - Chemistry (Urdu)

Exam	Exam Date: 29.05.2024 Subject: 306 - Chemistry (Urdu														
Q.No Key Q.No Key			Q.No Key Q.No Key			Q.No	Q.No Key Q.No Key			Q.No Key		Q.No Key			
Book : A		Book : A		Book : B		Book : B		Book : C		Book : C		Book : D		Book : D	
1	2	46	1	1	2	46	1	1	2	46	1	1	2	46	1
2	1	47	2	2	1	47	2	2	1	47	2	2	1	47	2
3	1	48	4	3	1	48	4	3	1	48	4	3	1	48	4
4	4	49	3	4	4	49	3	4	4	49	3	4	4	49	3
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