

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2024 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT ENVIRONMENTAL SCIENCE

Roll Number

TIME ALLOWED: THREE HOURS	(PART-I MC	Qs) MAXIMUM MARKS: 20
PART-I (MCQs) : MAXIMUM 30 MINUTES		MAXIMUM MARKS: 80
NOTE: (i) First attempt PART-I (MCQs) on sepa after 30 minutes. (ii) Overwriting/cutting of the options/an (iii) There is no negative marking. All MCG	swers will not l	oe given credit.
PART-I (MCQs)	(COMPULSOR	<u>Y)</u>

	(iii) There is no negative					
		PART-I (MCQs)(CO	MPULSORY)			
	i) Select the best option/answer i) Answers given anywhere else					
			wer sneet, will not be	considered.		
	A wide variety of living organ		(6) 11 1 1 1	(D) M - 64		
		Population	(C) Habitat	(D) None of these		
	What percentage of oxygen ar			0/ (D) N		
	(A) 20.95% and 0.004% (B)		(C) 20.0% and 0.40	% (D) None of these		
	The set of ecosystems is called		NO 44 0.4	(B) M (64)		
		Hydrosphere	(Č) Biome	(D) None of these		
•	Acid rain is a result of:			CAMI		
	(A) Excess amount of CO ₂		(B) Excess amount	01 NH ₃		
			(D) None of these			
	The greenhouse effect in the atmosphere is produced due to:					
	 (A) Absorption and re-emission of infrared radiation by the atmosphere (B) Absorption and re-emission of ultra violet radiation by the atmosphere 					
				(D) Name of those		
	(C) Absorption and re-emission		atmosphere	(D) None of these		
	The result of acid disposition		umana (C) Casanhausa	effect (D) Name of these		
	(A) Dying forests and lakes (B) Acid indigestion in humans (C) Greenhouse effect (D) None of these Biotic component of the environment does not include:					
	19年後の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の					
	(A) Micro-organism system (B) Plant and Animal system (C) Soil system (D) None of these Of the following agents, the one that would not favor conversion of sulfur dioxide to sulfate species in					
		ne that would not lave	or conversion of sulfur	102-3		
	the atmosphere is:	(D) Water	(C) Sunlight	(D) None of these		
	(A) Ammonia	(B) Water	(C) Suitight	(D) None of these		
	The pH of the atmosphere is:	(D) Paris	(C) Neutral	(D) None of these		
	(A) Acidic	(B) Basic		(D) None of these by the inhalation route		
	An association has been found	i between exposure to		by the inhalation route		
	and lung cancer.	(D) Chamium	(C) Parium	(D) None of these		
	(A) Lead (Pb)	(B) Chromium	(C) Barium	(D) None of these		
•	NEQ was approved on:	(D) 1002	(C) 1995	(D) None of these		
	(A) 1992	(B) 1993	ty for the concentrat	(D) None of these		
	The "Ramsar Convention" is		(C) Wetlends	(D) None of these		
	(A) Endangered species	(B) Biodiversity	(C) Wetlands			
	A mutual relationship between	n two organisms, when	e both of them are ben	entung from watching th		
	other is called:		(a) n(3)	(D) M (d)		
	(A) Mutualism	(B) Symbiosis	(C) Parasitism	(D) None of these		
		as indicator for a thr				
	The state of the s			cies (D) None of these		
	Mangrove forests in Asia are					
	(A) Pakistan	(B) Indonesia	(C) Malaysia	(D) None of these		
.	An individual may die within			the first the fi		
	(A) CO ₂	(B) NO	(C) SO ₂	(D) None of these		
			ation of toxic substan	ces in organisms as trop		
	levels increase in a food chain		V			
		Bio-concentration	(C) Bio-accumulati			
	What is the order of waste ma		from most to least favo	oured?		
	(A) Prevention- Recycle-Reuse- Disposal		(B) Prevention-Reuse-Disposal-Recycle			
	(C) Prevention-Reuse-Recycle-Disposal (D) None of these					
19.	Which gas produced in open d	lumps from the anaero	obic decomposition of	biodegradable waste?		
	(A) Ethane	(B) Methane	(C) Propene	(D) None of these		
).	Pakistan is divided into	agro-ecol	ogical zones.			
	(A) 8	(B) 10	(C) 12	(D) None of these Page 1 of 2		

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PART-II

Part-II is to be attempted on the separate Answer Book. NOTE: (i) (ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks. (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places. (iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. Extra attempt of any question or any part of the question will not be considered. (20)What is the mechanism of ozone depletion? What chemicals in upper atmosphere U. No. 2. are responsible for ozone layer depletion? What are the impacts of ozone layer depletion? What is the difference between an Environmental Impact Assessment (EIA) and an (20)Q. No. 3. Initial Environmental Examination (IEE)? List and explain the entire EIA process. Where in the project cycle should an EIA be initiated? One of the methods to control pollution problem is introduction of regulatory (20)Q. No. 4. mechanisms, incentives and fines. In your opinion how can we control the smog problem by using one of those methods? How would you implement a plan at a city level to mitigate the smog problem? What is green house effect? What is the mechanism of green house effect? Which (20)Q. No. 5. major air pollutants are responsible for causing global warming? Why is Pakistan considered more vulnerable to the effects of climate change when its contribution is less than 1% in total global GHG emissions? Discuss important components of Pakistan's National Climate Change Policy. Q. No. 6. (20)What is the impact of 18th amendment on Climate change Policy formulation in Pakistan? How Pakistan can benefit from COP28? Q. No. 7. What is occupational health safety and management? Provide examples of at least (20)five work places with possible associated exposure risks. How can such exposure risks be minimized/controlled? VQ. No. 8. Write short notes on any two of the following: (10 each) (20)a. United Nation Framework Convention on Climate Change (UNFCCC) by. Kyoto Protocol c. Eutrophication and its effects (FC+03 -> CFO+0, +C) Page 2 of 2

 $CI + O_3$ $CFCJ_3 + W \Rightarrow CFCJ_2 + CJ$ $CJ + O_3 \rightarrow CJ_2O + O_3$