

## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2025 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT ENVIRONMENTAL SCIENCE

	ENVIRONMEN	TAL SCIENCE		
	ED: THREE HOURS	(PART-I MCQs) MAXIMUM	MARKS: 20	
PART-I (MCQs)	) : MAXIMUM 30 MINUTES			
		parate OMR Answer Sheet which sh	nall be taken back	
after	30 minutes.			
(ii) Over	rwriting/cutting of the options/a	inswers will not be given credit.		
(iii) Ther	e is <b>no negative</b> marking. All MC	CQs must be attempted.		
PART-I (MCQs)(COMPULSORY)				
		propriate Box  on the OMR Answer Answer Sheet, will not be considered		
1. Which country h	osted the COP28 conference in 2	2023?		
(A) Egypt	(B) Brazil	(C) Dubai	(D) None of these	
2. Which of the follo	owing activities is a major contr	ributor to the increase in greenhou	se gas emissions?	
(A) Planting trees	(B) Burning fos	ssil fuels (C) Recycling plastic	(D) None of these	
3. Bioaccumulation	is the buildup of pollutants in:			
(A) Living Organs		matter (C) Living organisms	(D) None of these	
4. What does 100 pa	arts per billion (ppb) equal to?			
(A) 0.1%	(B) 0.001%	(C) 0.01%	(D) None of these	
5. Which gas is prin	narily responsible for the deplet	tion of the ozone layer?		
(A) Nitrogen oxid		(C) Chlorofluorocarbons	(D) None of these	
		lvocating for addressing loss and		
	ering its vulnerability to climate		0	
(A) Maldives	(B) Pakistan	(C) Brazil	(D) None of these	
7. What is biomagn				
(A) Increase in the concentration of a substance in tissues at higher trophic levels				
	chemical intake exceeds the rate of			
	productive rates of a population		(D) None of these	
	rs to the variety of life forms on	Earth?		
(A) Ecosystem	(B) Biomass	(C) Biodiversity	(D) None of these	
•	ary factor influencing groundw	· · ·	(D) Home of these	
(A) Rock composi	•	•	(D) None of these	
10. Which biome is characterized by low temperatures, permafrost, and a lack of trees?				
(A) Grassland	(B) Tropical rainfores	-	(D) None of these	
	× / I		(D) None of these	
• -	uifer is highly vulnerable to po		(D) None of these	
(A) Artesian aqu	· / ·		(D) None of these	
		hanism of heat transfer in the atm $(C)$ Conduction		
(A) Advection	(B) Convection	(C) Conduction	(D) None of these	
	for the loss of biodiversity due		$(\mathbf{D})$ N $\mathbf{C}$	
(A) Extinction	(B) Erosion	(C) Desertification	(D) None of these	
• •		for studying vegetation health?		
(A) Infrared sens	e ()	(C) Microwave sensing	(D) None of these	
15. NEQS stands for				
	rgy Quality Standards	(B) National Environmental	Quality Standards	
	ironmental Quick Solutions	(D) None of these		
	an essential component in under	-		
(A) Recovery	(B) Preparedness	(C) Probability	(D) None of these	
		r capita water supplies drop below		
(A) 1700	(B) 1000	(C) 700	(D) None of these	
18. Which gas is rel	eased by incomplete combustion	n?		
(A) Methane	(B) Carbon monoxide	e (C) Nitrogen	(D) None of these	
	etween the Stratosphere and the	Č,		
(A) Stratopause	(B) Tropopause	(C) Thermopause	(D) None of these	
20. The term EIA stands for:				
(A) Environmental Impact Assessment (B) Environmental Impact Analysis				
(C) Ecological Investigation Agency (D) None of these				

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## PART-II

NOTE: (i)	Part-II is to be attempted on the separate Answer Book.	
(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.	
(vi)	Extra attempt of any question or any part of the question will not be considered.	
	How have the industrial and agricultural revolutions contributed to environmental (20) challenges. What lessons can be learned to promote sustainable development?	

- Q. No. 3. How does population growth exacerbate poverty, biodiversity loss, and energy (20) insecurity? What strategies can ensure sustainable development in rapidly urbanizing regions?
- Q. No. 4. How can advancements in environmental biotechnology, physics, and chemistry (20) impact the mitigation of pollutants in ecosystems and what will be its impacts on human health?
- Q. No. 5. Discuss the causes and consequences of the air pollution problem in Pakistan. (20)
- Q. No. 6. How different climate types are formed in the world? Discuss tropical, polar, and dry categories of climate. Write down their characteristics. How will they respond to climate change, and what are the key indicators that highlight these changes?
- Q. No. 7. Evaluate the effectiveness of the Pakistan Environmental Protection Act of 1997 (20) and Pak EPA Regulations 2000 in addressing environmental governance and pollution control.
- Q. No. 8. How do global frameworks like the United Nations Framework Convention on Climate Change (UNFCCC), the Kyoto Protocol, and the Montreal Protocol align with Pakistan's environmental goals, particularly in addressing climate change and ozone layer depletion?

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