

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION – 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

TIME ALL	OWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20	
PART-I(MC	CQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80	
NOTE: (i)	Part-II is to be attempted on the sepa	rate Answer Book.		
(ii)	Attempt ONLY FOUR questions from PART-II, selecting TWO questions from EACH			
	SECTION. ALL questions carry EQ	UAL marks.		
(iii)	All the parts (if any) of each Question must be attempted at one place instead of at different			
	places.			
(iv)	Candidate must 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 p	part of the attempted que	estion will not be considered.	
(vii)	Use of Calculator is not allowed.			

PART-II SECTION-I

O No 2	(4)	What are the factors responsible for environmental pollution?	15
Q. No. 2.	(A)	what are the factors responsible for environmental polition?	(5
	(B)	Briefly explain the main reasons of water-logging in Pakistan.	(5
	(C)	What do you mean by Ozone depletion and how we can prevent its depletion?	(5
	(D)	What is an Acid Rain and how it is produced. Briefly describe the dangers	(5
		associated with it?	

B.2 (A) Defunition:

Emwronmental pallution is the type of pollution that is accessoomed by many other type of pollution. In emwronmental pollution, the factors that are effected are air, land, unter and dimate overall.

What we the factors causing environmental degradation?

1, Excessive organic waste

A huge amount of waste that is
disposed in urban-populated areas
causes ample medicinal Issues.
example: Organic waste lote
human feces fundmal wastes and
human-use elements.

2) Industrial waste

Nearly 80 % of the Industries exhibit firmes and dispose off to waske unchecked. Alkaliner and alkalines disposed off nearly ecoveronmental degradation, causing a huge

number of health bruses.
example: typhoud is orchestration of pollubed water.

3) Unchecked mining sites

m pakestan there are ample natural resources but the entraction process lak the professionalism. This due to metal over being disposed of In lakes causing enveronmental disription of these buck on tissues of fish rendering a blow on aquatic life.

4) Excessive usage of Carbon - Induced vehicles

In Pakistan, Usage of vehicles remains a top provided by vehicles drawed of wasking.

Fines generated by vehicles drawed on hydrogearbons is a large to threat to environment as it speads carton emission mercaning carton front and Wilmately Images of global warming.

5) Rampant usage of hydrocoxbons
In Pakustan, the notion of green.

DATE: __/___/20 energy is ilurare until now, Therefore, the vsage of renewable energy resource must be tostered to once and for all Water logging is a phenomena or a stage when the soul is utmost any water. It cause the leater to remain stagnant. What one main reasons behund water logging in Pakistan, 1) Ambiguous weather patterns As Pakistan remains vulnerable to domate change and uncomprehonsible vain patterns courses urban flooding. Due to it prevently measure could not be tolen timely evhoch causes enormous infrastrueloure damage and econornic losses. example: floods of 2010 and 2022. 2) deakoges in canals

Openecked states of candle is a larger threat to water logging As ample of canals are made through diggong temporary and vulnerable stype that lak water continously Merefore Regul earnals must be constructed to our this enggma. 3, Over brigation In a bod to attain more profiles more land is cultivated is tusewells lt eauses soil mon and more saturated making it ix esilvent to water absorption. al 4) Ineptness of mubiciple authorities m Dormant status of local bodies has created this issue. If the drawnage lines of urban setting are 180 burnely cleaned, this is a can the provent However his meffectioner dposes a langer threat to water 5) Increased water table On agraculture and the geographical

DATE:__/__/20 of Indus basin, the environment to mestased water remains prone Oxone is layer made up of a molecules. It is should of UV radiation that energes from sunlight. Ofon depletoon a dontinuo and gradia procen of torning brone layer, atmosphere en Höltered What are causes of ozone depletion 7 A huge number of Cluroflours carbon that are emilted by refrigerators. Moreour, John flours carbons also control atel depletion EFCs and AFCs How it can be prevented? 1) Introducing usage of green energy

energy Geo-thermal energy may revolve this menance 2) Imposing check and balance on emmissions District administrations must Impose regularisation places on people.
Moreour, Strict penalties must
be imposed on the wolators. 3) Diplomatic engagements There must be more regional sun national agreements lette Montreal Protocols and In 1987 and Kyoto protocol in 1997. These agreement largely blanted the Emissions of Citis globally and a major improvement was seen in ozone layer. Hustration of ozone depletion Cl + 03 --> Cl0/+ 02 -> CL + O2 CRO + 0

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Whok are districtions whenhe In
Definition:
eganaon.
Acod rain is a type of rain
that is considered to be disastrous
for embronment to contain
contaminants the CO2 NO
and 802.
How it is produced?
10000 00 10 100000000000000000000000000
When fumes containing encessive
amount of chemicals, like
Suliphur dibsiwole Webnagen
owder and carbon dismoder
react with the evalur draplets,
lt turns water onto acods.
Egration depicting at chemical
Egration depicting it chemical formation.
SO2 + Has -> H2804 (Sulphruric Acud)
(Surprivic Awd)
160 - 1600
NO2 + H20 -> H2NO3

CO2 + H20 --> CH2 03

DATE: __/__/20 What are distruction effects of Acid Rawn 7 1) Depleting Infrastructure It causes increased desbrection to buildings. 2) Deforestration Le poses a threatt to eldogy. As Acodice water Kills the reserve of trees and plants from its core, rendering it bollow. 3) Atmospheric degradation. Emog ut abnosphere form 80a and of siv elements. Good answers 1) + tour ic disruption Acido water illéamoitely fall onto novers and lakes making water bodies unliable. us measurement The PH level of accord rain is less