

# FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION-2024 FOR RECRUITMENT TO**

POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

### **AGRICULTURE & FORESTRY**

TIME ALLOWED: THREE HOURS	(PART-I MCQs)	<b>MAXIMUM MARKS: 20</b>
PART-I (MCQs) : MAXIMUM 30 MINUTES	(PART-II)	<b>MAXIMUM MARKS: 80</b>

**Roll Number** 

NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back

	after 30 minutes.  (ii) Overwriting/cutting of the options/answers		_	dit.		
L	(iii) There is <b>no negative</b> marking. All MCQs mus					
0 1	. (i) Select the best option/answer and fill in the appropriate		<u> </u>	Answ	er Sheet (20v1–20)	
₹.1	(ii) Answers given anywhere else, other than OMR Answe					
1.	Which soil type has the smallest particle size?					
•	(A) Sand (B) Silt	(C)	Clay	(D)	None of these	
2.	Optimal pH range for most crops is:		-			
	(A) 3-5 (B) 6-7	` ′	8-10	, ,	None of these	
3.	The process of breaking down organic matter into simple		-	-		
	(A) Photosynthesis (B) Respiration		Decomposition			
4.	The practice of growing two or more crops in proximity					
	utilization is: (A) Crop rotation (B) Monoculture		Agroforestry	(D)	None of these	
5.	The cultivation of crops without the use of soil is known					
	(A) Hydroponics (B) Aeroponics	` '		•	O) None of these	
6.	The hormone, responsible for promoting cell elongation					
_	(A) Auxin (B) Gibberellin		Cytokinin	, ,	None of these	
7.	The process of exposing seeds to moisture and temperature and					
•	(A) Stratification (B) Scarification		Vernalization	(D)	None of these	
8.	The primary role of pheromones in pest management is:				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
0	(A) Killing pests directly (B) Repelling pests (C) Attracting pests for monitoring (D) None of these					
9.	Which insect order includes pests such as grasshoppers a			<b>(F)</b>	NI. Ca	
10	(A) Orthoptera (B) Coleoptera		Lepidoptera	(D)	None of these	
10.	The primary purpose of backcrossing in plant breeding is		T 1 .	*	. 4 - 1	
	(A) Creating hybrids with increased heterozygosity		Introducing res	sistance	e to diseases	
11	(C) Fixing desirable traits in a new genetic background	(D)	None of these			
11.	The primary purpose of sustainable forestry is:	(P)	М' ' '	and t		
	(A) Timber extraction only (C) Clear cutting for quick land regeneration		Maximizing sh	ort-ter	ııı profits	
10	(C) Clear-cutting for quick land regeneration	(D)	None of these			
12.	The term "silviculture" refers to:	(D)	Forest 1	na =	ama a == t	
	(A) Rearing of silkworm  (C) Cultivation of trace and forests		Forest disease	ınanag	ement	
	(C) Cultivation of trees and forests  Which of the following is a common invasive species affer	` /	None of these			
13.	Which of the following is a common invasive species afform	_		(D)	None of the	
1 /	(A) Oak tree (B) Eucalyptus tree	(C)	Kudzu vine	(D)	None of these	
14.	In forestry, the term "coppicing" refers to:  (A) Planting new trees (B) Pruning branches (C) The	in-	a the forcet	ny /r	)) None of 41-	
15	(A) Planting new trees (B) Pruning branches (C) Thinning the forest canopy (D) None of these Which type of forest management aims to mimic natural disturbances, such as wildfires?					
15.	<del>-</del>					
	(A) Even-aged management (B) Shelterwood cutting (C) Uneven-aged management (D) None of these The practice of removing dead or diseased trees from a forest is known as:					
16.	· · · · · · · · · · · · · · · · · · ·		Clear-cutting	(D)	None of these	
17.	(A) Salvage logging (B) Pruning  Regeneration of a forest without direct human intervent	` ′		(D)	rone of these	
1/.	(A) Reforestation (B) Afforestation		Rehabilitation	(D)	None of these	
18.	The primary purpose of riparian forest buffers is:	(C)	renaviitati0II	(D)	THORE OF HIESE	
ı U.	(A) Soil erosion prevention (B) Wildlife habitat conservat	ion (C	) Carbon segues	itration	(D) None of those	
19.	Which international agreement focuses on combating ill					
. /.	harvested timber?	oyai I	Jaying and profi	cmy	a ado ni rogany	
	(A) Kyoto Protocol (B) Forest Law Enf	Orcen	ient Governance	and '	Trade (FLEGT)	
	(C) Nagoya Protocol (D) None of these	JICUII	, Governance	o, and		
20.	In the context of biodiversity the term "keystone species	s" ref	ers to:			
_0.	(A) Species that are abundant in number					

(B) Species that play a crucial role in maintaining ecosystem structure (C) Species that are endemic to a specific region (D) None of these

## **PART-II**

- **NOTE:** (i) Part-II is to be attempted on the separate Answer Book.
  - (ii) Attempt **ONLY FOUR** questions from **PART-II** by selecting **TWO** questions from **EACH SECTION**. **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.

### **SECTION-A**

- Q. No. 2. Explore the present situation of oilseed crops in Pakistan and identify potential factors contributing to the insufficient production of edible oil. Propose remedial measures aimed at enhancing this situation.
- Q. No. 3. Examine the distinctions between organic farming and conventional farming practices. Analyze the merits and drawbacks of each method. Evaluate factors such as environmental impact, yield, and soil health to provide a comprehensive understanding of the advantages and disadvantages associated with both approaches. Which would you recommend in Pakistan's perspective?
- Q. No. 4. Assess the impact of climate change on Pakistan's agriculture, particularly its effects on crop patterns and yields. Provide an analytical overview of current practices and propose strategies to make crop management more resilient to climate change, considering adaptation and mitigation measures.
- Q. No. 5. Write short notes on the following: (10 each)
  - (a) Conservation and utilization of plant genetic resources
  - (b) Integrated nutrient management

#### **SECTION-B**

- Q. No. 6. How can integrated watershed management address the competing demands for water in agriculture, industry, and domestic use? Analyze the impact of deforestation on watershed health and water availability. How can we integrate science and community engagement in watershed management?
- Q. No. 7. How effectively does the Pakistan Forest Policy integrate with the provisions outlined in the Pakistan Forest Act? Provide specific examples that how the policy's strategic goals are translated into actionable legal measures within the act. Discuss any areas where alignment may be strengthened or improved for more coherent forest governance.
- Q. No. 8. Write short notes on the following: (10 each)
  - (a) Potential of Ecotourism in Pakistan
  - **(b)** Biodiversity

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