

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

Roll Number

## AGRICULTURE & FORESTRY

100 (00 cm)	(PART-I MCQs)	MAXIMUM MARKS: 20
TIME ALLOWED: THREE HOURS	(PART-II)	
TIME ALLOWED: THREE HOURS PART-I (MCQs): MAXIMUM 30 MINUTES NOTE: (i) First attempt PART-I (MCQs) on separ	rate OMR Answer S	heet which shall be taken back
NOTE: (i) First attempt PART-I (MCQs) on ser		***
after 30 minutes.	swers will not be giv	en credit.
(ii) Overwriting/cutting of the op.  (iii) There is no negative marking. All MCC	Qs must be attempted.	

_	PART-I (MCQs)(COM	PULSO	ORY)		
	as a total and antion/anguer and fill in the appropriate	Box I	on the OMI	Answe	r Sheet.(20x1=20)
(	ii) Answers given anywhere eise, other than OMR Answer	r Sheet	, will not be o	onsidere	d.
	Which soil type has the smallest particle size? (A) Sand (B) Silt	0	Clay	(D)	None of these
2.	Optimal pH range for most crops is:	(C)	8-10	(D)	None of these
	(A) 3-5 (D) 6-7	nler co	mpounds by	microon	ganisms is:
	(A) 3-5 The process of breaking down organic matter into sim	(C)	Decompositio	on (D)	None of these
(	(A) Photosynthesis (B) Respiration	ty to er	hance pest co	ontrol a	nd nutrient
	(A) Photosynthesis (B) Respiration  The practice of growing two or more crops in proximi	(C)	Agroforestry	(D)	None of these
1	utilization is: (A) Crop rotation (B) Monocure	vn 951			
	The cultivation of crops without the use of soil is know	(C)	Precision far	ming (D	) None of these
	(A) Hydroponics (B) Aeroponics The hormone, responsible for promoting cell elongation	on and	bending in re	esponse t	to light, is:
1	(A) Auxin  (B) Gibberellin  The process of exposing seeds to moisture and temper	ature t	o initiate ger	mination	is known as:
	(A) Stratification (B) Scarification	(C)	Vernalization	n (D)	None of these
	Ti -t- I f t t- neet management	int			A
	(A) Killing pests directly (B) Repelling pests (C) Att	racting	pests for monit	toring (I	) None of these
),	Which insect order includes pests such as grasshoppe	TS BHG	Inchata.		
	(A) Orthoptera (B) Coleoptera	(C)	Lepidoptera	(D)	None of these
0	The primary purpose of backcrossing in plant breedi	no is:			
10.	(A) Creating hybrids with increased heterozygosity	(B)	Introducing	resistano	e to diseases
	(C) Fixing desirable traits in a new genetic background		None of the	se	
	The primary purpose of sustainable forestry is:				
11.	(A) Timber extraction only	(B)	Maximizing	short-te	rm profits
	(C) Clear-cutting for quick land regeneration	(D)	None of the	se	
	The term "silviculture" refers to:				
12.	(A) Rearing of silkworm	(B)	Forest disea	ase mana	gement
	(C) Cultivation of trees and forests	(D	) None of the	ese	
	Which of the following is a common invasive species				
13.	(A) Oak tree (B) Eucalyptus tree	(C	) Kudzu vine	e (T	) None of these
	In forestry, the term "coppicing" refers to:	10	,		The state of the s
14.	(A) Planting new trees (B) Pruning branches (C)	Thinn	ing the forest	canopy	(D) None of these
15	Which type of forest management aims to mimic na	tural d	isturbances.	such as	wildfires?
15.	(A) Even-aged management (B) Shelterwood cutting	(C) U	neven-aged ma	nageme	nt (D) None of these
16.	the state of the s	m a for	rest is known	as:	(-)
10.	(A) Salvage logging (B) Pruning	((	Clear-cutt	ing (	D) None of these
17.					
17.	(A) Reforestation (B) Afforestation	((	C) Rehabilita	tion (	D) None of these
18.	The section of the first of the				
10.	(A) (0 1)	evation	(C) Carbon s	equestra	tion (D) None of these
19.	(A) Soil erosion prevention (B) Wildlife habitat conse Which international agreement focuses on combat	ng ille	gal logging ar	d prom	oting trade in legally
19.	harvested the land agreement focuses on combat	ing me	8		
	harvested timber?	Enforce	ement, Gover	mance, a	nd Trade (FLEGT)
	(A) Kyoto Protocol (B) Forest Law (C) Nagoya Protocol (D) Nego of the	Ellion			nd Trade (FLEGT)
20	(13) 11	COL			
	(A) Species that are abundant in number	pecies			
			m structure		
	(C) Species that play a crucial role in maintaining C (C) Species that are endemic to a specific region	cosyste	in structure		(D) None of these
1	are chacine to a specific region			age 1 of	
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## PART-II

- Part-II is to be attempted on the separate Answer Book. Attempt ONLY FOUR questions from PART-II by selecting TWO questions from NOTE: (i) SECTION. ALL questions carry EQUAL marks. (iii) All the parts (if any) of each Question must be attempted at one place instead of at places. different (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. SECTION-A Explore the present situation of oilseed crops in Pakistan and identify potential Q. No. 2. factors contributing to the insufficient production of edible oil. Propose remedial measures aimed at enhancing this situation. Examine the distinctions between organic farming and convent (20)Q. No. 3. practices Analyze the merits and drawbacks of each method. Evaluate factors such 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? Assess the impact of climate change on Pakistan's agriculture, particularly its effects Q. No. 4. (20)on crop patterns and yields. Provide an analytical overview of current practices and () import propose strategies to make crop management more resilient to climate change, & considering adaptation and mitigation measures. Write short notes on the following: (10 each) Q. No. 5. (a) Conservation and utilization of plant genetic resources (b) Integrated nutrient management SECTION-B How can integrated watershed management address the competing demands for (20)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. 6.
- How effectively does the Pakistan Forest Policy integrate with the provisions (20)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) (20)
  - Potential of Ecotourism in Pakistan
  - Biodiversity

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