

PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POSTS OF PROVINCIAL MANAGEMENT SERVICE, ETC -2022 CASE NO. 2C2023

SUBJECT: AGRICULTURE (PAPER-I)

NIME ALL	owed: Three Hours	MaxXMUM Marks: 100	
NOTE:			
i	All the parts (if any) of each Question i places.	must be attempted at one place instead of at different	
H	Crossed.	e answers. All the blank pages of Answer Book must be	
ív. I	Extra attempt of any question or any par	t of the question will not be considered.	
NOTE:	Attempt FIVE Questions in All	l. Attempt in Urdu or English.	
2.No.1	Climate shocks have started to shak affect physiological processes of crop	te the agricultural system of Pakistan. How climatic factor p plants and results in yield reduction?	
		(20 Marks)	
2.Mo.2	Suggest a lay out and work plan for	evaluation of an extension program with suitable examples	
		(20 Marks)	
į.No.3	What are the morphological features Pakistan?	s, behavior and habitats of major wild life species found i (20 Marks)	
2.No.4		Lay down schematic diagram of Indus rives system of Pakistan depicting rivers, dams, heapres, and barrages along with irrigated and link canals.	
	b. Suggest strategic and managem resource base in the country to ensu	ent roadmap for enhancing and sustaining natural wate ire food security.	
	E C	(10+10=20 Marks)	
2.No.5	conditions favorable to crop growth.	ctice of modifying the state of the soil in order to provid What are the objectives of tillage and why attention mus and intensity of tillage? (20 Marks)	
Q.No.6	Discuss the application of near-infra real-time product monitoring in dairy of processed food items.	Discuss the application of near-infrared spectroscopy as a process analytical technology fo eal-time product monitoring in dairy processing. Also explain its impact on the nutritional profile of processed food items. (20 Marks)	
2.No.7	a. What are the key indicators of agriculture growth in Pakistan? What is the relative contributio of Indictors of agriculture in the national economy?		
	b. Discuss contemporary challenges overcome such challenges.	for agricultural growth in Pakistan. Suggest measures t (10+10=20 Marks)	
2.No.8	What is the role and advantages of tools are used in agriculture?	IT and ICT in agriculture development? How different IC (20 Marks)	



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SUBJECT: AGRICULTURE (PAPER-III)

TIME ALL	owied: Three Hours	MAXIMUM MARKS: 100	
NOTE:		1	
ii. Wi iii. No cno	the parts (if any) of each Question must be at ices. Ite Q. No. in the Answer Book in accordance with Page/Space be left blank between the answers. issed. The attempt of any question or any part of the qu	n Q. No. In the Q. Paper. All the blank pages of Answer Book must be	
VOTE:	Attempt FIVE Questions in All. Att	empt FIVE Questions in All. Attempt in Urdu or English.	
L.o.M.S	Describe Hardy Weinberg law along with in Example.	ribe Hardy Weinberg law along with its conditions of equilibrium? Justify with a ple. (20 Marks)	
2.No.2	Rank different strategies of resistance broken Elaborate reason of ranking and express y	eeding for the improvement of the crops? our perspective. (20 Marks)	
2.No.3 '	What is IPM? Describe the component production.	is IPM? Describe the components of IPM for assuring sustainable cro ction. (20 Marks)	
2.No.4	Describe types of germplasm resources. I crop germplasm for the sources of disease	ibe types of germplasm resources. Explain different methods for screening germplasm for the sources of disease resistance? (20 Marks)	
2.No.5	Define resistance, tolerance and suscepti defence mechanisms against viral disease	bility. Please give the details of the plant s. (20 Marks)	
2.No.6	Define Somacional variation. Describe its various factors and causes?		
	5	(20 Marks)	
).No.7	What is weathering? Give a brief overvious Describe the factors controlling weathering	ew of physical and chemical weathering. g. (20 Marks)	
).Mo.8	Write shorts notes on the followings:	(5X4=20 Marks)	
	I. Soll survey II. Salt affected soll III. Waterlogged soll IV. Soll fertility		

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