BOIL NO



PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POSTS OF PROVINCIAL MANAGEMENT SERVICE, ETC -2023 CASE NO. 1C2024

SUBJECT:

AGRICULTURE (PAPER-II)

TIME ALLOWED:

THREE HOURS

MAXIMUM MARKS: 100

NOTE:

i. All the parts (if any) of each Question must be attempted at one place instead of at different places.

ii. Write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.

iii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

IV. Extra attempt of any question or any part of the question will not be considered.

NOTE:	Attempt FIVE Questions in All. Attempt in Urdu or English.		
Q.No.1		Describe the chemical composition of hereditary material in cell and explain thromain differences in DNA and RNA. (20 Marks)	
Q.N6.2		ine biotechnology and agro-biotechnology. Write in echnology for crop improvement.	detail the scope of (20 Marks)
S.ou.D	What is cottage industry? Can cottage industries boost the economic conditions of a common man? Write a brief note on apiculture, sericulture and lac culture. (20 Marks)		
Q.No.	What are plant viruses, modes of transmission and describe different strategies control the plant viruses? (20 Marks)		
Q.No.5	Wri (i) (ii) (iii) (iv)	te short notes on the followings: Micropropagation Anther culture Somatic hybridization Protoplast culture	(4x5=20 Marks)
Q.No.6	Describe physical, chemical and biological properties of soil? (20 Marks)		
Q.No.7	Wri (i) (ii) (iii) (iv)	te short notes on the followings: Agri-biotechnology in 21 st century Hybridization techniques and procedures Gene cloning in plant breeding Role of oilseed crops in agriculture	(4x5=20 Marks)

Q.No.8 Explain the physiological requirements and problem for successful cultivation of mushrooms. Describe the nutritional value of mushrooms and explain the remedial measures for controlling mushroom poisoning. (20 Marks)