



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

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 Hardy Weinberg law along with its conditions of equilibrium? Justify with an Example. (20 Marks)
- Q.No.2** Rank different strategies of resistance breeding for the improvement of the crops? Elaborate reason of ranking and express your perspective. (20 Marks)
- Q.No.3** What is IPM? Describe the components of IPM for assuring sustainable crop production. (20 Marks)
- Q.No.4** Describe types of germplasm resources. Explain different methods for screening of crop germplasm for the sources of disease resistance? (20 Marks)
- Q.No.5** Define resistance, tolerance and susceptibility. Please give the details of the plant defence mechanisms against viral diseases. (20 Marks)
- Q.No.6** Define Somaclonal variation. Describe its various factors and causes? (20 Marks)
- Q.No.7** What is weathering? Give a brief overview of physical and chemical weathering. Describe the factors controlling weathering. (20 Marks)
- Q.No.8** Write shorts notes on the followings: (5X4=20 Marks)
- i. Soil survey
 - ii. Salt affected soil
 - iii. Waterlogged soil
 - iv. Soil fertility