

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICES (BPS-17)

2013

AGRICULTURE

TIME ALLOWED: 03 HOURS

MAX:MARKS: 100

Note:- Attempt any Five Questions.

- Q.1- Name different phosphatic fertilizers used in Pakistan along with their grade. Explain the integrated phosphorous management approaches recommended for KPK Province? (20)
- Q.2- How global warming can impact on agricultural systems of Pakistan? What are specific effects of atmospheric temperature on plant physiology of growth and development? (20)
- Q.3- What is current scenario of pesticide use in Pakistan and how can we minimize our dependence on these toxic substances? Also, categorize pesticides for their mode of action? (20)
- Q.4- Generally organic matter contents in soil of arid and semi-arid regions is low. Why organic matter is low in these regions of Pakistan? What is significance of soil organic matter and how soil organic matter status can be improved under local conditions? (20)
- Q.5- What is meant by crop water requirement? What is importance of crop water requirement to enhance crop productivity? What factors affect crop water requirement? (20)
- Q.6- Define salt-affected soils? Discuss various management and reclamation techniques of salt degraded soils? (20)
- Q.7- Why average yield of cereals is low in Pakistan compared with technologically advanced countries? Give suggestions to improve yield of these crops on sustainable basis? (20)
- Q.8- Differentiate between any four of the followings: (20)
- (i) Conventional and reduced tillage.
 - (ii) Back cross and test cross.
 - (iii) Extensive and intensive cropping.
 - (iv) C3 and C4 plants.