



FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR  
RECRUITMENT TO POSTS IN BPS-17 UNDER  
THE FEDERAL GOVERNMENT, 2009

AGRICULTURE

S.No.	
R.No.	

TIME ALLOWED:	(PART-I) 30 MINUTES	MAXIMUM MARKS:20
	(PART-II) 2 HOURS & 30 MINUTES	MAXIMUM MARKS:80

- NOTE:** (i) First attempt PART-I (MCQ) on separate Answer Sheet which shall be taken back after 30 minutes.  
(ii) Overwriting/cutting of the options/answers will not be given credit.

**PART – I (MCQ)**  
**(COMPULSORY)**

**Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet. (20)**

- (i) White revolution refers to the revolution in:  
(a) Rice production (b) Milk production (c) Cotton production  
(d) None of these (e) All of these
- (ii) Organic farming is important because of:  
(a) Toxic free plants (b) GMO free (c) Eco friendly  
(d) Healthy for humans (e) All of these
- (iii) Which of the following is not a good source of dietary fiber?  
(a) Pasta (b) Brown rice (c) Egg  
(d) Bread (e) All of these
- (iv) The branch of agriculture that deals with rearing of silkworm is called:  
(a) Olericulture (b) Sericulture (c) Apiculture  
(d) Viticulture (e) None of these
- (v) *Oryza Sativa* is the botanical name of:  
(a) Rice (b) Wheat (c) Barley  
(d) Sorghum (e) None of these
- (vi) *Xanthomonas citri* is the disease causal organism of citrus.  
(a) Bark splitting (b) Foot rot (c) Canker  
(d) Citrus decline (e) None of these
- (vii) Cholistani, Kali, Damani, Kachi and Bibrik are some of the breeds of:  
(a) Goats (b) Camel (c) Buffalo  
(d) Sheep (e) None of these
- (viii) Inflation of mammary glands of milch animals is called:  
(a) Johne's disease (b) Tuberculosis (c) Mastitis  
(d) Leptospirosis (e) None of these
- (ix) Patoto is an example of:  
(a) Root crop (b) Legumes (c) Fiber crop  
(d) Sugar crop (e) None of these
- (x) Tobacco is an example of:  
(a) Kharif crop (b) Rabi crop (c) Zaid rabi crop  
(d) Zaid Kharif crop (e) None of these
- (xi) Peanuts are:  
(a) Roots (b) Grains (c) Legumes  
(d) Nuts (e) None of these
- (xii) Which of the following insects is friendly for an organic farmer?  
(a) Stem borer (b) Root borer (c) Boll worm  
(d) Mango mealy bug (e) None of these
- (xiii) Money maker, Roma, Red top are some of the varieties of:  
(a) Chilies (b) Potato (c) Tomato  
(d) Onion (e) None of these
- (xiv) Swollen underground stem; an organ of food storage and propagation is called:  
(a) Rhizome (b) Tuber (c) Scion  
(d) Septa (e) None of these

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- (xv) Plants having soft, non woody growth are called:  
(a) Herkogamous (b) Hermaphrodite (c) Herbaceous  
(d) Homozygous (e) None of these
- (xvi) Removal of exchangeable sodium from the soil is called:  
(a) Denitrification (b) Desalinization (c) Desodication  
(d) Decortication (e) None of these
- (xvii) Enzymes are biocatalysts and their nature is:  
(a) Fat (b) Carbohydrate (c) Fiber  
(d) Protein (e) None of these
- (xviii) Khapra beetle is the pest of:  
(a) Rice (b) Sorghum (c) Barley  
(d) All of these (e) None of these
- (xix) L-113, PR-100 and BL-4 are the varieties of:  
(a) Rice (b) Wheat (c) Cotton  
(d) Sunflower (e) None of these
- (xx) Which one of the following is non essential amino acid?  
(a) Lysine (b) Leucine (c) Isoleucine  
(d) Glutamine (e) None of the above

### **PART – II**

<b>NOTE:</b>	<p>(i) <b>PART-II</b> is to be attempted on the separate <b>Answer Book</b>.</p> <p>(ii) Attempt <b>ONLY FOUR</b> questions from <b>PART-II</b>. All questions carry <b>EQUAL</b> marks.</p> <p>(iii) Extra attempt of any question or any part of the attempted question will not be considered.</p>
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- Q.2.** Define biotechnology and discuss in detail the role of biotechnology in crop improvement. (20)
- Q.3.** Discuss the role of environmental factors in the development of infectious diseases in plants and suggest measures to control these diseases. (20)
- Q.4.** Describe different methods of pest control in crops with main emphasis on biological control of insect-pests? (20)
- Q.5.** Discuss in detail the situation of development in agriculture sector in Pakistan and describe strategies to boost agricultural production in the country. (20)
- Q.6.** Enumerate the scope of range management in Pakistan and discuss its role in the development of dairy sector in the country. (20)
- Q.7.** Discuss in detail different techniques used for the asexual propagation of fruit plants. (20)
- Q.8.** Write short notes on **ANY FOUR** of the following: (20)
- (a) Factors affecting biological nitrogen fixation
  - (b) Soil erosion
  - (c) Crop rotation
  - (d) Genetic engineering
  - (e) Effective microorganisms (EM) technology
  - (f) Prospects of meat industry in Pakistan

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