



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

**AGRICULTURE**

S.No.	
R.No.	

<b>TIME ALLOWED:</b>	<b>(PART-I) 30 MINUTES</b>	<b>MAXIMUM MARKS:20</b>
	<b>(PART-II) 2 HOURS &amp; 30 MINUTES</b>	<b>MAXIMUM MARKS:80</b>

**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

**AGRICULTURE**

- (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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