

# FEDERAL PUBLIC SERVICE COMMISSION



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**COMPETITIVE EXAMINATION FOR  
RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT, 2011**

Roll Number

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## AGRICULTURE

<b>TIME ALLOWED:</b>	<b>(PART-I MCQs)</b>	<b>30 MINUTES</b>	<b>MAXIMUM MARKS: 20</b>
<b>THREE HOURS</b>	<b>(PART-II)</b>	<b>2 HOURS &amp; 30 MINUTES</b>	<b>MAXIMUM MARKS: 80</b>
<b>NOTE: (i) First attempt PART-I (MCQs) on separate Answer Sheet which shall be taken back after 30 minutes.</b>			
<b>(ii) Overwriting/cutting of the options/answers will not be given credit.</b>			

### (PART-I MCQs) (COMPULSORY)

- Q.1.** Select the best option/answer and fill in the **appropriate box** on the **Answer Sheet.** (1 x 20=20)
- (i) Sorghum inflorescence is called:  
(a) Panicle (b) Flower (c) Ear (d) Spike (e) None of these
- (ii) The first carboxylation enzyme in  $C_4$  plants is:  
(a) Rubisco (b) Carbon anhydrase  
(c) Phosphoenol pyruvate carboxylase (d) Rubisco activase (e) None of these
- (iii) Barnyard grass is an important weed of:  
(a) Maize (b) Rice (c) Wheat (d) Sunflower (e) None of these
- (iv) Plants take Nitrogen from the soil in the form of:  
(a) Nitrate (b) Ammonium (c) Ammonia (d) Both (a) and (b) (e) None of these
- (v) Photo respiration is mostly observed in:  
(a) CAM plants (b)  $C_4$  plants (c)  $C_3$  plants (d) Xerophytes (e) None of these
- (vi) KS – 282 and KS – 133 are the cultivars of:  
(a) Maize (b) Wheat (c) Coarse rice (d) Fine rice (e) None of these
- (vii) Green revolution refers to development of:  
(a) Cultivars with more green foliage (b) Dwarf varieties  
(c) Dwarf high fertilizer responsive varieties (d) Fertilizer responsive varieties (e) All of these
- (viii) Which is the example of root crop?  
(a) Potato (b) Sweet potato (c) Ground nut (d) Carrot (e) None of these
- (ix) Bread wheat is:  
(a) Monoploid (b) Diploid (c) Tetraploid (d) Hexaploid (e) None of these
- (x) Castor bean is:  
(a) Ornamental plant (b) Cereal crop (c) Pulse crop (d) Oil seed crop (e) None of these
- (xi) Bolting refers to emergence of inflorescence in:  
(a) Sugarcane (b) Sugarbeet (c) Potato (d) Sweet potato (e) None of these
- (xii) Sericulture is the study of:  
(a) Silkworm (b) Lac insect (c) Honey bee (d) White fly (e) None of these
- (xiii) Which one is not the source of Phosphorus?  
(a) Nitrophos (b) DAP (c) MOP (d) SSP (e) None of these

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(xiv) CLCV is a major disease of:

- (a) Corn (b) Cotton (c) Wheat (d) Citrus (e) None of these

(xv) International maize and wheat improvement centre (CIMMYT) has its headquarters in:

- (a) Switzerland (b) France (c) USA (d) Mexico (e) None of these

(xvi) In plants assimilates are translocated in the form of:

- (a) Glucose (b) Fructose (c) Sucrose (d) Amylose (e) All of these

(xvii) Delta of water for wheat is:

- (a) 12 acre inches (b) 16 acre inches (c) 19 acre inches (d) 24 acre inches (e) None of these

(xviii) Relative proportion of different soil particles is known as:

- (a) Soil structure (b) Soil texture (c) Soil profile (d) Soil tilth (e) None of these

(xix) Tensio meter is used for the determination of:

- (a) Soil moisture (b) Soil minerals (c) Soil organic matter (d) Plant moisture (e) None of these

(xx) Kajli is a famous breed of:

- (a) Sheep (b) Goat (c) Cow (d) Buffalo (e) None of these

### PART-II

**NOTE:(i) PART-II is to be attempted on separate Answer Book.**

**(ii) Attempt ONLY FOUR questions from PART-II. All questions carry EQUAL marks.**

**(iii) Extra attempt of any question or any part of the attempted question will not be considered.**

**Q.2.** Describe the canal irrigation system of Pakistan. What are the main causes of shortage of irrigation water for rabi crops? Give suggestions to improve the availability of water during peak periods of requirement. **(20)**

**Q.3.** Why indiscriminate use of pesticides is being discouraged? Suggest steps for implementation of pesticide laws in the country. **(20)**

**Q.4.** Discuss the role of forests in environment and climate change perspective. What are the reasons of deforestation in Pakistan? Suggest measures to improve the situation. **(20)**

**Q.5.** Discuss the impact of land reforms and law of inheritance on the agriculture in Pakistan. Are you in favour of more land reforms or support Corporate framing? Give reasons. **(20)**

**Q.6.** What is the scope of modern dairy farming in Pakistan? How meat and milk requirements of the people could be fulfilled? Suggest a viable and comprehensive plan of work. **(20)**

**Q.7.** Explain the reasons of low crop yields in Pakistan as compared with neighbouring countries. Why Pakistan could not achieve self sufficiency in edible oil, pulses and sugar? Suggest measures to improve the situation. **(20)**

**Q.8.** Write short notes on any **FOUR** of the following: **( 5 x 4 = 20 )**

- (a) Tunnel Farming (b) Crop rotation (c) Soil reclamation  
(d) Mango malformation (e) Compost (f) Herbicide resistance

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