

FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION FOR** RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2010

AGRICULTURE

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TIME ALLOWED:	(PART-I) 30 MINUTES	MAXIMUM MARKS:20	
TIME ALLOWEI	(PART-II) 2 HOURS & 30 MINUTES	MAXIMUM MARKS:80	3
* *	attempt PART-I (MCQ) on separate Answer Sheet v 30 minutes.	which shall be taken back	

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.								
				RT – I (MCQ) MPULSORY)				
Q.1.	Sele	ect the best option/answer	and fill	in the appropriate box	on the Answer Sheet. (20)			
(i)	Wh	eat inflorescence is called a	s:					
	(a)	Spike	(b)	Panicle	(c) Spadix			
	(d)	Cymose	(e)	None of these				
(ii)	Soil structure can be improved with the addition of:							
	(a)	Chemical fertilizer		Gypsum	(c) Lime			
		Organic matter		None of these				
(iii)	Hur	Humidity is measured by means of:						
	(a)	Luxmeter		Anemometer	(c) Psychrometer			
	(d)	Thermometer	()	None of these				
(iv)		When soil surface is protected/covered with residue of a crop, the practice is called?						
	(a)	Sheet erosion		Nitrogen fixation	(c) Tillage			
	(d)	Mulching	` '	None of these				
(v)		Which of the following is not a fruit?						
	(a)	Tomato	(b)	Potato	(c) Pumpkin			
	(d) Melon (e) None of these							
(vi)	Wh	Which one of the following is a good source of protein?						
	(a)	Wheat		Maize	(c) Pulses			
	(d)	Meat		None of these				
(vii)	The	vector of cotton leaf curl v	irus in P	Pakistan is considered as:				
	(a)	Jassid	(b)	Aphid	(c) Pink boll worm			
	(d)	White fly		None of these				
(viii)	In g	In genetics the appearance of an attribute of living organism is termed as:						
	(a)	Dominant		Phenotype	(c) Recessive			
	(d)	Genotype	(e)	None of these				
(ix) Rhizobium belongs to:								
	(a)	Nitrogen fixing bacteria		Amonifying bacteria	(c) Nitrifying bactyeria			
	(d)	Denitrifying bacteria		None of these				
(x)	In DNA, adenine always pairs with:							
	(a)	Guanine		Thymine	(c) Uracil			
	(d)		(e)	None of these				
(xi)		Insects have:						
	(a)	4 legs and 2 wings		8 legs and 4 wing	(c) 6 legs and 4 wings			
	(d)	4 legs and 4 wings		None of these				
(xii)	Tikka disease is major pathogenic threat in:							
	(a)	Wheat		Apple	(c) Sorghum			
	(d)	Groundnut		None of these				
(xiii)	Foo	d and Agriculture Organiza	tion (FA	AO) has its headquarters				
	(a)	Washington	(b)	Geneva	(c) Rome			
	(d)	Paris	()	None of these				
(xiv)	Soil salinity can be rectified with:							
	(a)	Urea	(b)	Ammonium Sulphate	(c) Sodium Chloride			
	(d)	Gypsum	(e)	None of these				

Student Bounty.com AGRICULTURE Safflower is an: (c) Leguminous plant Oil producing plant (b) Ornamental plant (d) Fibre producing plant (e) None of these (xvi) Banana fruit is classified in the category of: Berry (b) Pomes (c) Stone fruit (a) (e) None of these (d) Drupe (xvii) Ploidy level of maize plant is: (a) Monoploid (b) Diploid (c) Haploid Tetraploid (e) None of these (d) (xviii) Gypsum is rich source of: (a) Calcium + Zinc (b) Calcium + Potassium (c) Calcium + Sulpher Calcium + Nitrogen (e) None of these (d) (xix) Gossypium hirsutum is the botanical name of: (a) Rice (b) Maize (c) Sugarcane (d) Cotton (e) None of these Olericulture is the study dealing with: (xx)(b) Rearing of silk worms (a) Honey bee (c) Vegetable production (d) Growing ornamental flowers (e) None of the above PART – II PART-II is to be attempted on the separate Answer Book. (i) (ii) Attempt ONLY FOUR questions from PART-II. All questions carry EQUAL marks. NOTE: (iii) Extra attempt of any question or any part of the attempted question will not be considered. Q.2. Price control mechanism of some major agricultural commodities has failed in the country in the near past. Identify the main bottlenecks and suggest necessary measures to strengthen the existing marketing system. **(20)** Q.3. Biotic stresses are the matter of great concern in agricultural crop production. Give a comprehensive approach of various pathways to protect the crops from these threats. Q.4. Discuss the causes of soil salinity and water logging in irrigated agriculture. Suggest appropriate recommendations to reclaim saline sodic soils. **(20)** Q.5. Narrate the modern techniques of genetics regarding crop improvement. Discuss the prospects of new technologies to have the possibilities of another green revolution. Q.6. Agricultural research has significantly enhanced the productivity of all field crops in Pakistan except the oilseeds. Narrate the main shortfalls and discuss the role of various institutions/agencies working on these lines. (20)Q.7. Write short notes on ANY FOUR of the following:. (4×5) Challenges in livestock management (a) Genetic resources and their conservation (b) Organic crop production (c) (d) Potential of horticulture sector as an industry (e) Range management in Pakistan Foot and mouth disease (e)

Q.8. Differentiate between the following (ANY FOUR):

Biological nitrogen fixation and nitrification

Gram blight and Gram wilt

Silviculture and sericulture

Respiration and transpiration

Basic seed and certified seed

C₃ and C₄ plants

(a) (b)

(c)

(d)

(e)

(f)

 (4×5)