FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2013

AGRICULTURE

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Part I: Tir	ne Allowed: 30 Minutes	Maximum Marks: 20	
Part II: Time Allowed: 2 Hours & 30 Minutes			Maximum Marks: 80
Note: (i)	First attempt Part-I Sheet which shall be		on separate OMR Answer
(ii)	Overwriting/cutting given credit.	of the op	tions/answers will not be
	PART-I (MCQ	ў s) (Сомі	PULSORY)
UT 2. 00 10 00	lect the best option/ans the OMR Answer Sheet		II in the appropriate Circle
	swers given anywhere, t be considered.	other thar	OMR Answer Sheet, shal
1.	Ratio of additive vari (a) Heritability (Broa (b) Heritability (Narr (c) Co-heritability (e) None of these	d sense) ow sense)	enotypic variance is called: Gene action
2.	Inflorescence of whee (a) Spike (c) Arrow (e) None of these	(b)	called: Panicle Cob
3.	A nullisomic individual (a) 2n-1 (c) 2n-2 (e) None of these	(b)	esented by: 2n+1 2n+2
4.	Ribosomes are the sit (a) Fat synthesis (c) Photosynthesis (e) None of these	tes of: (b) (d)	Protein synthesis Anaerobic respiration
5.	Type of sugar presen (a) Pentose		s: Hexose

(d) Triose

(c) Heptose

(e) None of these

6.	그리아 아이들은 아이들은 아이들이 아이들이 아이들이 아이들이 아이들이 아이들		somes. How many linkage naize if all the genes are			
	(a) 10	(b)	20			
	(c) 40	(d)	15			
	(e) None of these					
7.	Ph of Urea fertilizer is:					
	(a) 4.00	(b)	3.5			
	(c) 8.0	(d)	7.0			
	(e) None of these					
8.	According to 1972 Land Reforms the ceiling of land was:					
	(a) 1000 acres irrigated a	(a) 1000 acres irrigated and 2000 acres barani land				
	(b) 500 acres irrigated and 1000 acres barani land					
	(c) 250 acres irrigated an	nd 500 a	cres barani land			
	(d) 150 acres irrigated and 300 acres barani land					
	(e) None of these					
9.	Which type of soil holds more water?					
	(a) Sandy	(b)	Stony			
	(c) Clayey	(d)	Silty			
	(e) None of these					
10.	Hydrosphere refers to:					
	(a) Zone of water	(b)	Zone of earth crust			
	(c) Zone of atmosphere	(d)	Zone of air			
	(e) None of these					
11.	Which compound is mostly used in Pakistan for the reclamation of saline-sodic and Sodic soils?					
	(a) Apartite	(b)	Calcite			
	(c) Dolomite	(d)	Gypsum			
	(e) None of these					
12.	Carrot, Radish, Cabbage	e and be	eet are:			
	(a) Annual	100000000000000000000000000000000000000	Biennial			
	(c) Perennial	(d)	Woody perennial			
	(e) None of these					
13.	Which one of the follow	ing is r	not a fruit?			
	(a) Tomato	(b)	Potato			
	(c) Musk-melon	(d)	Water-melon			
	(e) None of these					
14.	The body of a sheep known as:	red with specialized fibers				
	(a) Hairs	(b)	Fleece			
	(c) Wool		Fuz			
	(e) None of these	18 II				
15.	Bovine is a term used for	r:				
(7.50)	(a) Cattle		Buffalo			

	(c)	Sheep	(d)	Goat			
	(e)	None of these					
16.	The act of giving birth to young ones in animals is called:						
	(a)	Ovulation	(b)	Fertilization			
	(c)	Parturation	(d)	Conception			
	(e)	None of these					
17.	The type of mouth parts of the Grass-hopper are:						
	(a)	Chewing	(b)	Sucking			
	(c)	Piercing and sucking	(d)	Biting and sponging			
	(e)	None of these					
18.	Bac	Bacteria reproduce asexually by means of:					
	(a)	Fragmentation	(b)	Budding			
	(c)	Binary fission	(d)	Multiplication			
	(e)	None of these					
19.		All goods and services produced in a country in one year are called:					
	(a)	GNP	(b)	GDP			
	(c)	NDP	(d)	NNP			
	(e)	None of these					
20.		Uniform removal of soil in thin layer from sloping land is called:					
	(a)	Sheet erosion	(b)	Rill erosion			
	(c)	Gully erosion	(d)	Stream channel erosion			
	(d)	None of these					

(PART-II)

- Note: (i) Part-II is to be attempted on the separate Answer Book.
 - (ii) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
 - (iii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.
 - (iv) Extra attempt of any question or any part of the attempted question will not be considered.
- Q.2. What are the sources of irrigation water in Pakistan? Explain different methods of irrigation to agricultural crops.
- Q.3. Write a detailed note on the prospects of Farm Mechanization in Pakistan.
- Q.4. Explain the process of Biological Nitrogen Fixation. Discuss the factors which affect this process.
- Q.5. What is Hybrid Vigour? Explain the procedure of developing a hybrid corn.
- Q.6. Explain the process of Protein synthesis in the plant cell.

- Q.7. What are the major insects, pests and diseases of Cotton crop in Pakistan? Suggest and explain an economical strategy to be adopted by the farmers to minimise the losses due to these menaces.
- **Q.8.** Write short notes on any **FOUR** of the following.
 - (i) Land Tenure System in Pakistan.
 - (ii) Status of Horticulture in Pakistan.
 - (iii) Water logging and Salinity in Pakistan.
 - (iv) Role of Organic Matter in the soil.
 - (v) Livestock as an important component of Agriculture in Pakistan.
 - (vi) Agro-forestry.