## FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2001.

#### **AGRICULTURE**

### TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt FIVE questions in all, including question No.8 which is COMPULSORY, All questions carry EQUAL marks.

- 1. Pakistan has experienced a good production of various agricultural crops like Wheat, Rice and Cotton in the recent past, but despite of this the farmers were generally not happy. What do you think could be the reasons of farmers' frustration? Suggest possible solution of such situation.
- 2. Genetic Engineering and Biotechnology are considered to be the sciences of 21st century. What is the current status of their role in agricultural research in Pakistan and what could be their possible contribution in future in this context. Comment.
- What is biological Nitrogen fixation? Explain the factors affecting the biological 3. N-fixation.
- What are the basic laws of inheritance? Comment how these laws have helped in 4. the process of crop improvement in agriculture.
- 5. Describe the principles of Insect Pest Control in agricultural crops.
- Horticultural industry is an emerging industry in Pakistan; how do you comment on it?
- Write short notes on the following:
  - Population Problems of rural Pakistan (a)
  - (b) Role of Organic matter in Soil
  - (c) Soil Erosion and Conservation
  - (d) Live stock as a component of agriculture.

#### **COMPULSORY QUESTION**

8. Write only the correct answer in the Answer Book. Do not reproduce the question.

(A)

- **(1)** The economy of Pakistan is based on:
  - (a) Agriculture (b) Industry (c) Mineral resources (d) None of these.
- (2) Which one of the following is major export commodity of Pakistan: Wheat (b) Cotton (c) Sugar (d) Rice (e) None of these.
- (3) Sahiwal breed is a breed of:
  - Buffalo (a)
- (b) Cow
- Sheep (c)
- (d) Goat (e) None of these
- (4) Vertebrate pests of crops include:
  - Insects (a)
- wild bores (b)
- spiders (c)

(d) None of these

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(5)	Basmati is a type of: (a) Wheat (d) Sorghum	(b) Rice (e) None	of these	(c)	Maize		OH
(6)	Sericulture means: (a) Rearing of Ho (c) Both of these	ney bees			of Silk worms of these		
(7)	Gossypium hirsutism (a) Sugarcane (d) Maize	(b) Whea		of: (c)	American Cotton		
(8)	Kharif crops include (a) Wheat (d) None of these	(b) Cotto	n į	(c)	Both of these	· ·	
(9)	Genetically Modified organisms produced t  (a) Genetic Engir  (c) None of these	hrough the ap	plication		used for the	ics	
(10)	The carrier of "cotton"  (a) White fly  (d) None of these	(b) Jassic		istan is (c)	considered to be: American boll we	orm	
(11)	The process of synthesis called as: (a) Respiration (d) None of these	(b) Photo	y the plan		e presence of sun l	<del>"</del>	,
(12) (13) (14) (15) (16) (17)	The date palm is mor Nitrogen is taken up RGR stands for Increased Vigour of a as GDP stands for Haploid number of C	by the plants in the hybrid over the control over the con	n the form he mean of Desi C	n of of its pa Cotton i	arents is called	CO1	
(18) (19) (20)	refers to the sirefers to the at IPM stands for	rangement of			•		