Scientific Officer Recruitment Test

Bangladesh Agricultural Research Institute

Joydebpur, Gazipur – 1701

Date: 00-00-0000

Tme: 1:30 Hours	Full Marks: 70
1. Answer by writing 'T' of the statement is true and 'F' i	f the answer is false
in the space provided:	10
a) 'Titas' is a variety of Cheena (Proso millet).	
b) Seed can always be germinated when it is viable.	<u> </u>
c) Vigna mungo is the scientific name of mungbean.	
d) Soybean contains more protein than oil.	
e) Little leaf of brinjal is caused by a nematode.	
f) Maize is a cross pollinated crop.	
g) Zinc deficiency occurs in young leaves	
h) Photosynthesis efficiency is more in C ₃ plant than C ₄	plant
i) Pink borer is a pest of sugarcane.	
j) Xylem transport water from root to plant body.	
2. Fill in the blanks with appropriate words: 10	
a) The chromosome number of rice is	
b) 'Satabdi' is a variety of	
c) Aphid is a vector of	
d) Positively charged ion is called	
e) is an enzyme which hydrolyzes prote	ein into amino acids.
f) ELISA denotes	

g) Insect's body is divided in	nto,,	and
·		
h) In submerged soil the ava	ilable form of Nitrogen is	·
i) 100 kg paddy gives	_ kg rice.	
j) Loose smut of wheat is can	used by	·
3. Choice the best answer and by	putting (✓) mark.	5
a) Which one is the most ser	ious pest of sunflower?	
i. Parrot	ii. leaf hopper	
iii. fungi	v. mites	
b) 'Hyprochola' was released	d by	
i. BARI	ii. ACI	
iii. BRAC	iii. BINA	
c) Shoot and fruit borer is a p	pest of	
i. papaya	ii. brinjal	
iii. guava	iv. Mango	
d) Error d.f. is minimum in _		
1. CRD	ii. LSD	
iii. RBD	iv. RCBD	
e) Which one is not S-fertiliz	zer?	
i. Gypsum	ii. Ammonium sulphate	
iii. Potassium sulphate	iv. Copper sulphate	
4. Write down the scientific name	es of the following:	5
a) Maize:	<u> </u>	
b) Cotton:		
c) Papaya:		
d) Mutha:		

e) Bottle	gourd:				
f) Radisl	h:				
g) Toma	to:				
h) Onior	າ:				
i) Lady'	s finger:				
j) Jute: _					
5. Write down	n 3 varieties, so	wing time, seed rate	e and yields	of the fo	ollowing 5
Crop	Variety	Sowing time	Seed rate	Yield	
Aman rice			10		
Wheat		(0)	•		
Grasspea		JULY			
mustard	Mis				
6. Write down	the definition o	f the following word	ls:		2×7=14
a) Variety:					

b) Hybridization:			
c) Crop rotation:			
d) Transgenic crop:		W _C	gel
e) Tissue culture:	only	· · · · · · · · · · · · · · · · · · ·	
f) Pathogenesis:	15		
g) IPM:			

7. Calculate the amount of Sevin 50WP required to prepare 10 litre of 0.01 spray materials.

8. Calculate the amount of N, P and K for 0.5 ha of wheat field when the application rate of Urea, TSP and MP are 200 kg/ha, 150 kg/ha and 180 kg/ha, respectively.

9. Give a layout plan for an experimental field with 4 varieties and 2 weeding replicated 4 times. Also give the ANOVA.



10. Translate into English.

বাংলাশের প্রধান খাদ্যশস্য হলো ধান। বাংলাদেশে প্রতি বছর প্রায় ৩,৪১,৩৪,০০০ মেট্রিক টন ধান উৎপন হয়। ইহা মিশরে উৎপন্ন ধানের প্রায় আট গুন বেশী। কিন্তু আপনি জেনে অবাক হবেন যে. মিশরে ধানের গড ফলন প্রায় ৯.১৪ টন/হে.. যেখানে বাংলাদেশের ফলন মাত্র ৩.৪৫ টন/হে!

BANSDOC =

CGIAR =

HRC =

AVRDC =

IITA =

ICRISAT =

WRC =

NARS =

IFAD =

ISTA =