Time Allowed: 3 Hours

Full Marks: 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be given either in <u>English</u> or in <u>Bengali</u> but all answers must be in one and the same language.

## GROUP-A

Answer any three Questions :

	Answer any three Questions:	
1. i)	Discuss on SRI. Mention the differences between SRI and cotional cultivation method of transplanted rice.	nven-
ii)	Describe in details about recommended management practices jute crop.	
2. i)	Define "Weeds".	20
ii)		5
iii)	State the characteristics of Weeds.	5
111/	Discuss in details about Weed management practices in Organ farming.	nic
3. i)	Define 'soil'.	30
ii)	Distinguish between soil fertility and soil productivity.	5
iii)	213cdss on modern concept of soil fertility	8
. iv)	Describe different methods of soil conservation.	7
4. i)	What do you mean by 'essential plant nutrients' ? Classify enlist essential plant nutrients.	20 and
ii)	Mention the important functions and commonly used sources of following plant nutrients:	10 £
2211	N, P, S and Mo	
iii)	Narrate the important features of INM.	20
5.	Write in brief on any four:	10
a)	Concentrated organic manure;	
b)	Biofertilizers;	
c)	Vermicompost;	
d)	Drip irrigation;	
e)	Strategies for improvement of fodder cultivation;	
f)	Green manure crops and green manuring.	
6. i)		0x4
ii)	Describe the gran management practices of	25

Describe the crop management practices of rabi maize.

25

## GROUP-B

	Answer any two Questions :	
7.	Write short notes on any five :	
a) b) c) d) e) f) g) h)	Crop insurance; Jute retting; Farm forestry; Soil solarisation; Methods of fertilizer application; Reduced tillage; SHG in agriculture; Reclamation of problem soils.	8x5
8. i)	State the differences (with examples) between 'legumes' and 'pulses'.	5
ii)	What do you mean by <u>paira</u> crop ? State the importance of paira cropping.	
iii)	Pulses are considered as "Climate smart crops" Explain the statement.	10
9. i)	What is agroforestry ? Describe the benefits of agroforestry	25
ii)	What do you mean by MPTs ? State the characteristics of MPTs suitable for agroforestry.	3+5
iii)	Narrate the following land use systems:	+10
	a) Alley cropping; b) Shifting cultivation; c) Wing-breaks; d) Taungya system.	
10.	Write in brief on any four:	20
a) b) c) d) e) f)	Cold storage and warehouse; Farm planning; Dryland farming; K V K; Afforestation; Water harvesting.	

10x4