COMBINED COMPETITIVE EXAMINATION (MAIN)

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Time	e : 3 F	Full Me arise down the nursery raising techniques of transglanted me around	arks : 200
		What are the losses caused by weed?	
Note	e: (1) (2)	The figures in the right-hand margin indicate full marks for the questions Attempt five questions in all	nA A
	(3)	Question No. 1 is compulsory.	
od o 1.	Ansv	wer any ten of the following questions: imply to nonselve of benchman	4×10=40
	(a)	Why are biofertilizers considered as environment friendly?	
	<i>(b)</i>	How are crops selected based on slope, water availability and soil reaction	1?
	(c)	What is brushening in rice?	
	(d)	How is irrigation water applied to potato crop based on critical stages?	
	(e)	How are riceland classified according to water regime?	
In the	(f)	What are the Arnon's criteria of essentiality in plant nutrition?	
	(g)	Differentiate between soil fertility and soil productivity.	
	(h)	Mention some strategies to reduce the iron toxicity of transplanted rice.	
	(i)	Give the common mechanism of biological nitrogen fixation.	
	<i>(j)</i>	Why are entire requirement of phosphatic fertilizers applied as basal to me crops?	ost of the
	(k)	Why is water use efficiency of drip irrigation higher than flood irrigation?	
	(1)	What is the role of mulch in dryland agriculture?	
2.	Answer any eight of the following questions:		5×8=40
	(a)	What do you mean by Evergreen Revolution? How can it be achieved?	5. Aus
	(b)	Differentiate between eluviation and illuviation.	
	(c)	Why is weathering a constructive and a destructive process?	
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- (d) What are the advantages of transplanted cotton?
- (e) How does potassium help to overcome drought and salt stress?
- (f) Briefly describe the process of retting of jute.
- (g) How can wheat, barley and oat be differentiated based on ligule and auricle?
- (h) Mention the nitrogen and potassium deficiency symptoms in plant.
- (i) What is watershed management?

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- (j) Briefly write down the nursery raising techniques of transplanted rice.
- (k) What are the losses caused by weed?
- 3. Answer any five of the following questions:

8×5=40

- (a) What is soil erosion? Enlist the adverse effects of soil erosion.
- (b) What is the planting material of sugarcane? Mention the important points to be considered for selection of planting materials of sugarcane.
- (c) What do you mean by social forestry? Describe the importance of social forestry in our country.
- (d) How can farm mechanization increase the crop production in Arunachal Pradesh?
- (e) Mention some extension strategies to convince the farmers about the ill effects of shifting cultivation.
- (f) Mention the important chemical and electrochemical changes of submerged soil of lowland rice.
- 4. Answer any four of the following questions:

 $10 \times 4 = 40$

- (a) What is SRI? Mention the features of SRI technique in rice. Describe the advantages of SRI technique elaborately.
- (b) What is soil formation? Describe the factors responsible for soil formation.
 - (c) What is nitrogen use efficiency? How can nitrogen use efficiency be increased?
 - (d) Briefly describe the agricultural marketing system of Arunachal Pradesh.
 - (e) Describe different methods of weed control of crop and non-crop land.
- 5. Answer any two of the following questions:

 $20 \times 2 = 40$

(a) What is sustainable agriculture? Describe the important management practices for sustainable agriculture.

- (b) Describe the package and practices of potato with reference to variety, planting time, spacing, nutrient management, method of planting, irrigation management and plant protection measures.
 - (c) What is agroforestry? Describe different types of agroforestry system. How do these systems enhance ecological stability and production sustainability?
 - **6.** Answer any *four* of the following questions :

10×4=40

- (a) What is soil fertility? What is the role of organic matter in maintaining soil fertility?
- (b) What are the cultivated species of jute? Mention the differences between the two species.
- (c) How are wheat irrigated under limited and adequate availability of water?
- (d) What do you mean by cropping scheme? Describe the points to be considered for preparation of a cropping scheme.
- (e) Explain, in brief, the land and labour as important farm resources.
- 7. Answer any two of the following questions:

 $20 \times 2 = 40$

- (a) What is scheduling of irrigation? Describe elaborately different methods of scheduling irrigation.
- (b) What is drainage? Describe different methods of drainage. How are drainage spacing found out to drain out water from a waterlogged area?
- (c) What are the steps involved in the process of farm budgeting? Mention the advantages of farm budgeting.
- 8. Answer any two of the following questions:

 $20 \times 2 = 40$

- (a) What is mixed cropping? Give the principles of mixed cropping. Elucidate the advantages and disadvantages of mixed cropping.
- (b) What is soil erosion? Discuss different measures to control water erosion in hilly areas of Arunachal Pradesh.
- (c) How are agricultural markets classified according to seller and time? Briefly discuss the problems of agricultural marketing in Arunachal Pradesh.
- 9. Answer any two of the following questions:

 $20 \times 2 = 40$

- (a) What is crop rotation? What are the advantages of crop rotation? Mention the principles of crop rotation.
- (b) "Farming system is an important tool in scientific farm business." Explain how.
- (c) What are the principles of extension programme planning? Write the programme planning processes briefly.

10. Write explanatory notes on any four of the following:	$10 \times 4 = 40$
(a) Doubling farmers' income	
(b) Lab to land programme	
(c) Methods of evaluation of extension programme	
Socio-economic survey	
(e) Krishi Vigyan Kendra	
(f) Role of agricultural extension	
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