## 2017 AGRICULTURE - PAPER-II

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.

	1	Answer any three guestions.	
1%.	al	Describe with a schematic representation of Ultra structure of a plant cell.	
	./		10+10
	ואן	What do you mean by Pinocytosis and Phagocytosis.	10
	9)	Differentiate between Eukaryotic Cell and Prokaryotic Cell.	10
2.	a)	What is absorption spectrum and action spectrum.	5+5
	b)	Distinguish between Cyclic Phosphorisation and non- Cyclic Phosphorisation.	10
	c)	How solar energy is trapped by chloroplast. What is advantages of C <sub>4</sub> Cycle over C <sub>3</sub> Cycle.	
			10+10
3.	a)	What is the difference between aerobic and anaerobic respiration.	10
	b)	What is respiratory quotient (RQ). What are the significance of RQ.	
			5+5
	c)	Why Kreb's Cycle is called TCA Cycle. What is EMP path way.	10+10
4.	a)	Chair the mile of the control of the	
/	/	State the role of synthetic Auxin in agriculture.	10
1	(3)	What is growth, what are the phases of growth.	5+10
	es	State the role of K in plant nutration.	
,	dy	Why do plant need Mg.	10
	7	my do prant need mg.	5
5.	a)	Write the definition of plant seed.	
	b)	Give the structure and functions of the different part	5
		of the plant seed.	
	c)	Write about quality seed and its role in Agriculture	15
		production.	20
			20

P.T.O.

## www.WBCSMadeEasy.in

BM-(0) AG-II/17

## ## 2 ##

6.	a)	Describe the standard method of potato tuber cultivation in the gangatic West Bengal.	
	b)	Give the special emphasis on seed tuber rate/acre, variety, climatic condition, weed control and intercultural operation including irrigation in details.	20
			20
		GROUP-B	
		Answer any two Questions.	
7.	a)	Write, the variety of tube rose in the plain of West Beng	
	b)	Write their cultivation with special reference to land preparation, Fertilizer requirement, intercultural operation, irrigation and stick management.  10+10+1	5.0+5
8.	de	Who is the father of Genetics. Write his work in brief.	
	by	How many traits did he select for his experiment and what are those.	10
	es,	State the laws of inheritance and how could be formulate those laws?	
	d)	Why did his selected traits did not show deviation from normal segregation ratio?	12
9.		Write short notes on any eight.	10
	a)	Certified seeds by Quality seeds c) Quarantine	
	a)	Triple Fusion e) Chromatin Fiber f) Lysosomes	
	g)	Genetic erosion by Pest management in Medicinal	plant.
			5x8
10.	a)	What is sporogenesis.	6
	b)	Describe the processes of micro and mega sporogenesis and gamatogenesis.	10
	c)	Differentiate between deficiency symptom and genetic disorders with examples.	
	2)	Nihot is between	14
	d)	What is hetrosis.	10

For Guidance of WBCS (Exe.) etc. Preliminary, Main Exam and Interview, Study Mat, Mock Test, Guided by WBCS Gr-A Officers, Online and Classroom, Call 9674493673, or mail us at -> mailus@wbcsmadeeasy.in