KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag.Degree Programme 2015 Admission IInd Semester Final Examination- August-2016

11 Semester Final Examination- August-2016	
Cat. No: Ssac.1202	Marks: 50
Title: Agricultural biochemistry (2+1)	Time: 2 hours
I. Fill in the blanks	(10 x 1=10)
1. Pyrimidine bases present in DNA are and	(10 / 10)
Competitive inhibitor of succinate dehydrogenase is	
3. The red coloured pigment of tomato is due to	•
State True or False:	9
4. Nitrogen gas is the mobile phase in gas chromatography	
5. Increase in substance concentration increases the velocity and obtain a be	ll shaped graph
6. Optical activity is measured using spectrophotometer.	- ourther Probus
7. Golden rice is rich in vitamin D.	•
Choose the correct answer	
8. Sorbitol is the alcohol of	•
a) Glucose b) sucrose c) maltose d) Lactose.	
9. Xylose is a sugar \(\sqrt{100} \)	
a) Triose b) pentose c) diose d) Hectose.	
10. Which of the following are weak forces associated with the interaction of molecules?.	biological
a) Hydrogen bonding b) Electrostatic interaction c) Covalent bonding a & b	d) Both
II Write short notes on any FIVE	(5 x 2=10)
What are plant hormones?	
2. Rancidity.	
এ 3. Allosteric inhibition.	•
Zwitter ions.	
5. Secondary structure of proteins.	
Structure of t-RNA.	
Functions of lipids. ✓	
III Explain any FIVE of the following	(5 x 4=20)
DNA structure and function.	(,
Chart the reactions involved in glyoxylate cycle.	
Difference between C ₃ and C ₄ pathway.	
4. Mechanism of enzyme action.	
Structure of eukaryotic cell.	
6. Brief functions of chloroplast and mitochondria.	
7 Define replication. Show that DNA replication is a semi-conservation and	
Define replication. Show that DNA replication is a semi conservative proces& Stahl experiment.	s with Meseison
IV Write essay on ANY ONE	(1 = 10-10)
	(1 x 10=10)
1. Sketch the reactions of TCA cycle and explain its role in metabolic process	•
Explain calvin cycle.	
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