



DURATION: ONE HOUR	REGISTRATION NO
DATE: 31 st December 11, 2006	TIME : 10.30a.m 11.30a.m.
PARI	
ANSWER ALL QUESTIONS IN THE S	SPACES PROVIDED
01. A fully turgid cell has an osmotic pot equilibrium with pure water, that is the cell. a) State the water potential of the	here is no net gain or loss of water to or from the
b) Calculate the pressure potent	ial of the cell.
c) (i) In which direction wor sucrose solution v	uld water flow if the cell is transferred to a water potential of – 1000 kPa.?
(ii) Predict changes in osn might occur.	notic potential and pressure potential which
(iii) Under what condition	s will the flow of water cease?

	fill in the blanks with appropriate words to complete the following statements.
	a) Endoplasite reticulum is called "rough" when it has
e e e e e e e e e e e e e e e e e e e	embedded in its surface.
	b) Peroxisomes and glycosomes are they are bound by
	single unit Peroxisomes breakdown
	while glyoxisomes breakdown
	c) The covalent bond between two amino acids is called a
	bond. When three or more amino acids are joined, they form a
	chain.
	d) The the boundary between the cell and the
	environment.
	e) The main polymer that forms a plant cell is
	f) A fat molecule has fatty acids where as a phospholipids has
	fatty acids
	g) The basic structure of all cell membranes is a bilayer, with the
	of phospholipid molecules at the outer
	surfaces and the between the surfaces
	h) Membrane carbohydrates when bonded to lipids are called
	and when bonded to proteins are called
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	i) Most of the extraordinary properties of water is caused by the
	of its molecule.
	j) Water potential is a sum of two opposing forces in a plant cell,
	and and the second seco
	k) Water flows from where its potential is to where its
:	potential is The water potential of a cell
	when solutes are added, when
	water is added, and when pressure is added.