

THE OPEN UNIVERSITY OF SRI LANKA
FOUNDATION PROGRAMME IN SCIENCE - 2008 / 2009
ASSESSMENT TEST I - OPEN BOOK TEST
PSF 1305 / PSE 1305 BOTANY I



O B T I

DURATION: ONE HOUR

REGISTRATION NO. :

DATE: 16th Sept. 2008

TIME: 1.00 p.m- 2.00p.m

ANSWER ALL QUESTION ON THE SPACE PROVIDED

(1). Select the most relevant word from column X to column Y and write the corresponding letter in the space provided.

X	Y
A) Photosynthesis	Companion cells
B) Sclerenchyma	Respiration
C) Eukaryotes	Naked seeds
D) Sucrose	Pentose
E) Mitochondrion	Co-factors
F) Xylem	Bast fibers
G) Ribose	Organized nucleus
H) Enzymes	Chloroplast
I) Phloem	Vessels
J) Gymnosperms	Disaccharides

(2). Fill in the blanks of the following sentences with the most appropriate word/words.

- All proteins are made up of sub units referred to as
- Fructose is an example of a..... found in plant cells.

- c)are polymers of nucleotide monomers.
- d) Mostrequired non-protein molecules called co-factors for their function.
- e). A stack of thylakoids in a chloroplast is referred to as
- f). The matrix of theis composed of a network of material called chromatin.
- g). are the projections that extend into the matrix of a mitochondrion.
- h). Cells intissues are capable of dividing to produce daughter cells.
- i). When the guard cells swell by absorbing water the stomata.....
- j).help in exchange of gases between the environment and the inner tissues of the stems of plants.

(3) State whether the following statements are True or Falls

- a). Starch is a Disaccharide
- b). Enzymes reduce the activation energy of reactions.
- c) Primary plant cell walls are mainly composed of cellulose.
- d) Peroxysomes are found in association with chloroplasts.
- e) Phloem is a simple tissue.
- f) Pericycle is located outer to the endodermis.
- g) Guttation occurs through hydathodes.
- h) Mature sclerenchyma are living cells.
- i) Ribosomes are organelles involved in respiration.
- j) Vessels are found only in angiosperms.

(4). Differentiate between the following.

a). Parenchyma

Collenchyma

i)

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ii).....

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b). Chlorophylls

Anthocyanins

i).....

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ii).....

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c). Monocot leaf

Dicot leaf

i).....

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ii).....

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d). Xylem vessels

Xylem parenchyma

i).....

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ii).....

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e) Angiosperms

i).....

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ii).....

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Gymnosperms

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c
d
e
f
g
h
i)
j)
(2)
a).
b).