

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc./B.Ed. DEGREE PROGRAMME – LEVEL 3 – 2008/2009
BTU 1201/BTE 3201 – PLANT DIVERSITY
ASSESSMENT TEST III (NO BOOK TEST)



DURATION – ONE (01) HOUR

REGISTRATION NO.

Date– 28th March 2009

Time: 11.30a.m. – 12.30p.m.

Answer all questions in the space provided.

This paper consists of four(04) questions and four(04) pages.

1. Give two (02) main differences between each of the following. **No diagrams are required.**

a). **Leucoplasts**

Chromoplasts

1.

1.

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2.

2.

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b). **Monocot epidermal peel(leaf)**

Dicot epidermal peel(leaf)

1.

1.

.....

.....

2.

2.

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2. Make fully labeled diagrams of the following (**line diagrams only**).

a). **L.S. of the mature *Cycas* ovule**

b). T.S. of a monocot stem

3. Write short answers for the following questions in the space provided.

a). Briefly define the 'self pollination' in plants.

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b). Distinguish between heart wood and sap wood.

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c). List the main cell types in the xylem.

- | | |
|---------|---------|
| 1. | 2. |
| 3. | 4. |

d). Give the generic name of the giant tree on earth.

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e). List two (02) xerophytic features exhibited by the *Pinus* leaves.

1.
2.

f). List the four (04) types of underground stems.

1.
2.
3.
4.

g). How does an apocarpous ovary differ from a syncarpous ovary?

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h). Name the three (03) genera of the Order - Gnetales.

1.
2.
3.

i). What are tyloses?

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.....

j). Name the two(02) lateral meristems found in plants.

1.
2.

4. Genus-*Gnetum* shows many characteristics similar to a dicotyledonous plant.

Discuss the above statement with reasons.

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Handwriting practice lines consisting of 12 horizontal dotted lines.

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