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THE OPEN UNIVERSITY OF SRI LANKA
B. Sc. DEGREE PROGRAMME 2010/2011
BOTANY – LEVEL 05
BTU 3104 / BTE 5104 – PLANTS AND MAN



ASSESSMENT TEST 02 (NO BOOK TEST)

DURATION: ONE (01) HOUR

Registration No.

DATE: 30th OCTOBER 2010

TIME: 4.00 P. M. – 5.00 P.M.

Answer all questions.

1. a) Fill in the blanks with appropriate word to complete the following paragraph.

Among the fiber yielding plants, cotton has long been considered as the world's most important source of natural fiber. The cotton is obtained from the plant scientifically known as (1)..... (2)..... and is belong to the family (3)..... Cotton plants are naturally perennial shrubs or (4) However, under cultivation it is considered as an (5) Characteristically, laves are (6) and is (7) Fruit are capsules with (8) The seed epidermis has two types of fibers (9)..... namely (10) and (11) Majority of cotton fiber is used for (12) (3) The world leading cotton producers are (14), (15) (16)..... (17) (18) and (20)

- b). Give botanical name of the following plants and plant part(s) from which fiber is extracted.

i) Flax

Botanical Name:.....

Plant part(s):

.....

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ii) Kapok

Botanical Name:

Plant part(s):
.....

iii) Jute

Botanical Name:

Plant part(s):
.....

iv) Kenaf

Botanical Name:

Plant part(s):
.....

2. Plants produce economically important vegetable oils, fats and waxes and are use in many industries.

i) Based on the degree of unsaturation, the fatty oils are grouped into:

- 1)
- 2)
- 3)

ii) Give **two (02)** examples for each group of oils mentioned in 2(i). 1) - 3).

- 1)
- 2)
- 3)

iii) Give **three (03)** major industrial uses of the oils mentioned in 2(i).1)-3).

- 1)
- 2)
- 3)

iv) Briefly describe the extraction methods use in essential oils from plant materials.

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3. A) List **three (03)** important uses of the following plants.

a) *Heavea braziliensis*

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b) *Cinnamomum zeylanicum*

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c) *Piper nigrum*

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d) *Tectona grandis*

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e) *Myristica fragrance*

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B) Indicate economic important product(s) yield from the plants mentioned in 3. A).

a)-e).

a)
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b)
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c)
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d)
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e)
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[illegible]