

KERALA AGRICULTURAL UNIVERSITY

B.Sc(Hons.) Forestry. 2012 Admission
VIth Semester Final Examination- July -2015

Cat. No: Fmau.3212

Title: Utilization of non-timber products(1+1)

Marks: 80

Time: 3 hours

I. Fill up the blanks / Match the following

(10 x 1 = 10)

Fill up the blanks

1. Lac is a resin secreted by the insect is _____.
2. Fiber is obtained from the _____ tissue of many woody species.
3. _____ is a species from which Agar oil is distilled.
4. Beedi making is done from the Tendu leaves of the species _____.
5. The Annatto dye is obtained from the seeds of _____.

Match the following

- | | |
|----------------|---------------------------------|
| 6. Gum kino | a. <i>Saussuria lappa</i> |
| 7. Bengal kino | b. <i>Cinchona ledgeriana</i> |
| 8. Root drug | c. <i>Pterocarpus marsupium</i> |
| 9. Bark drug | d. <i>Caryota urens</i> |
| 10. Sago palm | e. <i>Butea monosperma</i> |

II. Write short notes / answers on ANY TEN

(10 x 3 = 30)

1. What are the uses of Lac?
2. Describe the methods of cane processing.
3. Give an account on the various minerals and their collection methods found in the forest
4. Indicate the various grasses and mention its importance.
5. Name the bark drugs and their uses.

6. Write a short note on flower oil.
7. Name the fibre yielding species and indicate the family it belongs
8. Differentiate oleoresin and gum resins.
9. Name the important species of canes.
10. What are the common grasses used for thatching?
11. Name the trees and plants which yield silky flosses.
12. What are the uses of coir fibre?

III. Write short essays on ANY SIX of the following

(6 x 5 = 30)

1. Classify the tanning materials with suitable examples.
2. List out various animal products and its usage derived from forest.
3. Explain various kinds of resin tapping.
4. Name the species and its portions that has got poisonous effect
5. List out important drug yielding leaves of species and its importance.
6. Name the resin yielding pine and broad leaved species.
7. Describe the distillation of leaf oil.
8. List out important tree borne oil seeds and its usage.

IV. Write essay on ANY ONE

(1 x 10 = 10)

1. Explain briefly the modified and improved method of Katha and Cutch extraction.
2. Narrate the sources, collection and processing of beedi leaves.