



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons) Forestry 2015 Admission
VI Semester Final Examination-July 2018

Fmau.3212

Utilization of Non-timber products (1+1)

Marks: 50
Time: 2 hours

- I Fill in the blanks (10x1=10)**
- 1 Henna dye is obtained from -----
 - 2 Cutch is obtained from -----
 - 3 The common host plant of lac insect is -----
 - 4 Gum Arabic is derived from species of genus _____
- State True or False**
- 5 The major constituents of honey are water, glucose and fructose.
 - 6 Orissa is the largest tendu producing State.
 - 7 Deodar oil used to cure ulcer and skin disease is obtained from its flower.
 - 8 Sappan wood is used for both the dye and medicinal purpose.
 - 9 *Ceiba pentandra* yields only gum
 - 10 The major constituents of honey are water, glucose and fructose.
- II Write Short notes on any FIVE of the following (5x2=10)**
- 1 Differentiate gums and resins
 - 2 List any two tree species used for Bidi industry.
 - 3 How does bees make honey ?
 - 4 Differentiate NTFP and NWFP.
 - 5 On what basis tannins are classified? List with examples.
 - 6 Differentiate kusumi and rangeeni strains in lac.
 - 7 List any two fodder tree species highly preferred by elephants.
- III Answer any FIVE of the following. (5x4=20)**
- 1 What are plant gums? Differentiate between gum karaya and tamarind gum.
 - 2 List any four essential oils with examples and uses.
 - 3 The importance of NTFP.
 - 4 Distribution of bamboo in India and its utility.
 - 5 What are TBO's? Brief about the extraction and processing methods followed for oils.
 - 6 List out any four medicinal plants along with their utility.
 - 7 The collection, drying and packing procedure followed for Bidi.
- IV Write an essay on any ONE of the following (1x10=10)**
- 1 List out the about gum yielding trees. Explain the tapping, collection, grading and utility of gums.
 - 2 What are Resins? Illustrate collection, tapping, processing and use of resin. List out the resin yielding species.
