



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc (Hons) Forestry 2016 Admission**  
**VI Semester Final Examination-June 2019**

Fopu.3205

**Logging and Ergonomics (1+1)**

**Marks: 50**

**Time: 2 hours**

**(10x1=10)**

- I Fill in the blanks:**
- 1 The total wood wastage from tree felling to transportation in coniferous forests is \_\_\_\_%.
  - 2 The best lengths of span in Donald Portable Gravity Ropeway are \_\_\_\_\_.
  - 3 \_\_\_\_\_ is suitable felling season of trees in plains and sub mountain tracts.
  - 4 The broad gauge railway sleeper size is \_\_\_\_\_.
  - 5 The usable rough timber from average tree is \_\_\_\_\_%.
  - 6 Debarking is also known as \_\_\_\_\_.
  - 7 The width of saw cut is called \_\_\_\_\_.
  - 8 The average number of bamboos carried in a raft is about \_\_\_\_\_.
  - 9 IPRTI stands for \_\_\_\_\_.
  - 10 In India first logging centre was established at \_\_\_\_\_.
- II Write Short notes on any FIVE of the following** (5x2=10)
- 1 Why direction of fall should be decided before felling?
  - 2 Main scope of logging.
  - 3 Differentiate between forest depot and sale depot.
  - 4 Why does the saw cut badly?
  - 5 Heat stress disorders.
  - 6 Differentiate between planks and scantlings.
  - 7 Logging plan.
- III Answer any FIVE of the following.** (5x4=20)
- 1 Differentiate between Peg tothing and raker tothing saws.
  - 2 "Felling with axe alone" with suitable diagram.
  - 3 Main difference between sweeping and rafting.
  - 4 Grading of timber.
  - 5 General precautions in felling.
  - 6 Overhead skidding system.
  - 7 Common methods of selling the forest produce.
- IV Answer any ONE of the following** (1x10=10)
- 1 Management and layout of ideal timber depot.
  - 2 How rules of ergonomics are beneficial for increasing the efficiency of logging workers?

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