

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry 2012 Admission  
V<sup>th</sup> Semester Final Examination- February -2015

Marks: 80

Time: 3 hours

Cat. No: Wosc.3107

Title: Logging and Ergonomics (2+1)

(10 x 1 = 10)

## I. Fill up the blanks

1. The standard length of the axe handle is \_\_\_\_\_.
2. The rounded products of varying lengths are called as \_\_\_\_\_.
3. The entire opening between two adjacent teeth is called as \_\_\_\_\_.
4. The portion of the axe head in front of the eye is known as \_\_\_\_\_.
5. The thickness of the saw blade is known as \_\_\_\_\_.
6. The season for felling is determined by \_\_\_\_\_.
7. The axe is used in a standing or \_\_\_\_\_ position.
8. Stream floating is generally practiced for distance of \_\_\_\_\_ kms.
9. \_\_\_\_\_ are the intermediate depots.
10. EMD is a deposit, usually \_\_\_\_\_ % of the contract value.

(10 x 3 = 30)

## II. Write short notes on ANY TEN

1. Felling season.
2. Advantages of power saws.
3. Organization of felling and logging.
4. Wet slides
5. Estimation of produce available for extraction.
6. Stump height
7. Size of material in logging.
8. Temporary storage.
9. Types of timber depots
10. Layout of timber depots.
11. Skyline transportation.
12. Bow saw.

(6 x 5 = 30)

## III. Write short essays on ANY SIX of the following

1. Implements used in felling & conversion.
2. Log transport by land.
3. Methods of sale of forest produce.
4. Systems of grading of timber.
5. Safety rules and first aids

6. Temporary and final storage of timber.
7. Plants, animals and insect infestations and control measures
8. Effects of heavy work, weather and nutrition on forest labour

(1 x 10 = 10)

**IV. Write essay on ANYONE**

1. Define ergonomics. Explain briefly about the components and provision of energy
2. Discuss the felling rules. What are the different methods for felling the trees. substantiate with suitable diagrams