



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

Wosc.3107

Logging and Ergonomics (2+1)

Marks: 50
Time: 2 hours
(10x1=10)

I Fill in the blanks:

- 1 As a rule of thumb, ground skidding equipment should not be used on slopes of more than ----
- 2 When primary forests are cut down, bio-diversity -----(increases or decreases).
- 3-5 Trees -----carbon. When trees are cut or burned down, the carbon is -----into the atmosphere in the form of-----
- 6 For side slopes, the survey technique is based upon the ----- concept.

Match the Following

- | | |
|------------------|------------------------------|
| 7 Parallel | a Regrowth |
| 8 Leaf litter | b Habitat is cut into pieces |
| 9 Regeneration | c Provides nutrients to soil |
| 10 Fragmentation | d Goes along or next to |

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 Forest Roads
- 2 Strip Logging
- 3 Personal protective equipments
- 4 Overhead cable skidding
- 5 log grading
- 6 Log scaling
- 7 Principle of Clinometer method

III Answer ANY FIVE of the following

(5x4=20)

- 1 Discuss minor road transportation during logging operations?
- 2 What safety precautions are required during logging in hilly areas?
- 3 What precautions must be taken up while storing the logs in timber yard?
- 4 Explain salvage logging?
- 5 State the types of undercut used in trees for logging operation?
- 6 Describe water transportation of logs?
- 7 What type of weather is to be considered for better logging operations and why?

IV Write an essay on ANY ONE of the following

(1x10=10)

- 1 What are the factors responsible for felling a tree?
- 2 Explain the industrial methods of logging?
