

B.Des. Examination, 2016
Specialization in Furniture & Interior
Semester - V
Paper: FI-V/03
(Materials & Process-I)

Time: Three Hours

Full Marks: 40

Questions are of equal value or as indicated in the margin.
Attempt *any four* questions.

1. a) Explain with example the term “exogeneous” and “endogeneous” trees.
b) What is annual ring? Write in your own words about formation of annual ring.
c) What is meant by quarter cutting log? Explain.
d) Distinguish between free water and combined moisture.
e) Why seasoning is important factor for good quality of timber. 5x2=10
 2. a) Distinguish between plywood and block board in their manufacturing. Write their advantages and disadvantages. Which material do you think is most economical and why?
b) What is coverage area? How do you calculate the coverage area? 5+5=10
 3. What are the responsible factors for causing defects of timber? Write any four types of defect with related sketch. 2+8=10
 4. Write short notes (*any five*): 5x2=10
 - a) Arris edge
 - b) Chamfering
 - c) Splayed edge
 - d) Nosing
 - e) Bevelled edge
 - f) Rough timber and dressed timber
 - g) Rounded edge
 5. a) What is particle board? Discuss the classification on the basis of their density. Explain the raw materials used for it’s manufacturing. 5+(1.5+1.5+2)=10
b) Write short notes on:
 - i) Laminated veneer lumber 1.5
 - ii) Oriented strand board 1.5
 - iii) Wafer board 2
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