

01. Match List I (Disease of Timber) with List II (Effect of Disease) and select the correct answer using the code given below the lists

List - I	List - II
A. Dry rot	1. Attack of sapwood by fungus
B. Grey rot	2. Damage to wood fibres due to chemical decomposition of wood
C. Wet rot	3. Destruction of cellulose of wood due to fungal attack
D. White rot	4. Destruction of lignin of wood due to fungal attack

Codes :

a. A - 1, B - 3, C - 2, D - 4  
 b. A - 1, B - 4, C - 2, D - 3  
 c. A - 2, B - 3, C - 1, D - 4  
 d. A - 2, B - 4, C - 1, D - 3

02. What is the ratio of the elastic modulus of structural timber in longitudinal direction to that in the transverse direction?

- (a) 1/2 to 1  
 (b) 1/10 to 1/20  
 (c) 1 to 2  
 (d) 10 to 20

03. What is the modulus of elasticity of standard timber (Group in (MN/cm<sup>2</sup>)?)

- (a) 0.5 to 1.0  
 (b) 1.0 to 1.25  
 (c) 1.25 to 1.5  
 (d) 1.5 to 1.75

04. What is the treatment for marking timber fire-resistant?

- (a) ASCU treatment  
 (b) Abel's process  
 (c) Creosoting  
 (d) Tarring

05. How is the process of treatment of wood using a preservative solution and forcing air in at a pressure designated?

- (a) Rueping process  
 (b) Lawry process  
 (c) Full cell process  
 (d) Empty cell process

06. Consider the following statements:

1. Cambium layer is between sapwood and heartwood.
2. Heartwood is otherwise termed as deadwood.
3. Timber used for construction is obtained from heartwood.

Which of the above statements

is/are correct

- (a) 1, 2 and 3  
 (b) 2 and 3 only  
 (c) 1 and 2 only  
 (d) 2 only

07. The advantage in using plywood is that the

- (a) Tensile strength is equal in all directions  
 (b) Higher tensile strength in longer direction  
 (c) Higher tensile strength in shorter direction  
 (d) Lower tensile strength in longer direction

08. Which are of the following statements is correct as regards to tensile strength of wood.

- (a) Minimum in the direction parallel to the grains  
 (b) Maximum in the direction parallel the grains  
 (c) Maximum in the direction across the grains  
 (d) Same in all directions

09. Consider the following statements .

1. Dry rot in sap wood is caused by fungal attack
  2. Brown rot in coniferous woods is a result of fungal attack.
  3. Alternate wetting and drying of unseasoned timber causes 'powdery' form of decay in wood
- Which of these statements are correct ?
- (a) 1, 2 and 3                      (b) 1 and 2 only  
 (c) 2 and 3 only                    (d) 1 and 3 only

10. Consider the following statements:

Fibre saturation point in wood is reached when

1. Free water is removed.
2. Cell water is removed.
3. Shrinkage of wood is rapid.
4. Strength gain is rapid.

Which of these statements are correct?

- (a) 1, 2 and 3  
 (b) 1 and 2 only  
 (c) 2 and 4 only  
 (d) 1, 3 and 4

11. The radial splits which are wider on the outside of the log and narrower towards the pith are known as

- (a) star shakes  
 (b) annular rings  
 (c) cup shakes  
 (d) heart shakes

12. Consider the following distinguishing characteristics of hardwood :

1. They have distinct annular rings.
  2. They are not resinous.
- Which of these characteristics of hardwood is/are correct?
- (a) 1 only  
 (b) 2 only  
 (c) Both 1 and 2  
 (d) Neither 1 nor 2

13. Consider the following distinguishing characteristics of hardwood :

1. It is always greater than 2
2. It is less than 1
3. It is not dependent upon temperature and equilibrium moisture content.
4. It is dependent upon type of species.

Which of these statements are correct?

- (a) 1, 2, 3 and 4                      (b) 1 and 3 only  
 (c) 2 and 3 only                      (d) 2 and 4 only

14. The age of a log of timber can be estimated by

- (A) Diameter Of Pith  
 (B) Thickness Of Bark  
 (C) Number Of Annular Rings  
 (D) Number Of Medullary Rays

15. Consider the following statements:

Seasoning of timber results in

1. Increased strength
2. Increased durability
3. Reduced resilience
4. Increased dimensional stability

Which of these statements are correct?

- (a) 1, 2 and 4  
 (b) 1, 2 and 3  
 (c) 1, 3 and 4  
 (d) 2, 3 and 4

16. Match List-I with List II and select the correct answer using the code given below the lists:

List - I	List - II
A. Plywood	1. Furniture
B. Fiberboard	2. Cantilever arches
C. Laminated lumber	3. Insulation
D. Commercial block-board	4. Lining of form-work in concrete

Codes :

- a. A - 1, B - 2, C - 3, D - 4  
 b. A - 4, B - 3, C - 2, D - 1  
 c. A - 1, B - 3, C - 2, D - 4  
 d. A - 4, B - 2, C - 3, D - 1

17. **Statement (I)** : Timber suitable for tension members is obtained from coniferous trees.

**Statement (II)**: Coniferous trees have distinct it annular rings and straight grains.

18. Which of the following statements are correct?

1. Knots in a tree affect the continuity of fibers.
2. Nail knots do not influence the strength of timber.
3. Druxiness of wood is not a defect.
4. Tall tees with twisted fibres give good timber for poles.

- (a) 1, 3 and 4  
(b) 1, 2 and 4 only  
(c) 1, 2 and 3 only  
(d) 2, 3 and 4 only

19. Excesses in wood are :

1. Defects found in trees
2. Formed due to injuries inflicted on trees when they are growing
3. Defects which render wood suitable as fire wood only.

- (a) 1, 2 and 3  
(b) 1 and 2 only  
(c) 1 and 3 only  
(d) 2 and 3 only

20. What treatment is adopted for making timber fire-resistant?

- (a) ASCU treatment  
(b) Abel's process  
(c) Creosoting  
(d) Tarring

