01. Deterioration of structure of timber due to dry rot is

1. **Caused by fungi**
2. **Due to dry-spell after heavy rains**
3. **Due to attack of termites**
4. **Indicated by surface stripes on scantlings.**

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

02. Alternate wetting and drying of timber

1. **Results in shrinkage and swelling.**
2. **Brings about wet rot onset.**
3. **Increases the durability**
4. **Causes transmission of spores from germination**

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

03. Which IS code is used for classification of timber for seasoning purposes?

(a) IS : 4970-1973

(b) IS : 1708-1969

(c) IS: 1141-1958

(d) IS: 399-1963

04. AsCu, a preservative for wood, developed by the Forest Research Institute, Dehradun,
comprises of chemicals:
$As_2 0_5$.$2H_2 0$, $CuS0_4$. 5Hp and ~Crp7 in the proportion of
(a) 1 : 1 : 1 (b) 1 : 2 : 3
(c) 1 : 2 : 4 (d) 1 : 3 : 4

05. The minimum number of annular rings to be seen in every 2.54 cm in the radial direction from the core for timber to be classified as 'Dense' is

a. **10**
b. **20**
c. **30**
d. **40**

06. Statement (I) : Timber suitable for furniture is obtained from conifers only.
Statement (II) : Woods with distinct annual rings are conifers.

07. Statement (I) : Seasoning of timber gives dimensional stability, safety against attack by fungi and improved workability.
Statement (II) : Seasoning of timber removes moisture in the form of sap from timber.

08. Statement (I) : Air-entraining cement has a higher initial setting time than OPC. and resists frost action better.
Statement (II) : Air-entraining cement has a longer final setting time compared to opc

09. Statement (I) : Planks sawn from trees with twisted fibers are stronger than those cut from trees with normal growth.
Statement (II) : Timber from trees with twisted fibers is used straightaway as poles.

10. Assertion(A): Within a given species, green timber of large moisture content dries in the same length of time as that of lower moisture content.
Reason (R): The sapwood which contains most of the moisture, dries more rapidly than the heartwood.

11.Assertion (A) : Dimensional changes in wood result due to variation in the moisture content of the wood with atmospheric conditions.
Reason (R) : The cell wall in wood are highly hygroscopic and when exposed to moisture, absorb large amounts of water and swell.