

Duration: 3 Hours**Total Marks: 80**

- N.B.** 1) **Question 1** is compulsory.
2) Attempt **any three** from the remaining **five questions**.
3) Figures to the right indicate **full** marks.
4) Indicate question numbers clearly.
5) Support your answers with as many examples/illustrations as possible.

Q.1) Briefly explain the following terms:

- A) Natural Seasoning. **5**
B) Functions of Internal Fitments. **5**
C) Wooden Dunnages. **5**
D) Unit Load. **5**

Q.2) A) Explain the various methods of treatment/preservation of wood. **10**

B) Differentiate between Palletized boxes and Box pallets. **10**

Q.3) A) Describe the factors to be considered for packaging of light engineering goods. **10**

B) Explain considerations for packaging of 1-litre conc. Hydrochloric acid. **10**

Q.4) Write short notes on (**any five**):

- A) Use of Silica Gel as desiccants. **5**
B) Knots and Cross Grain. **5**
C) Fibre Saturation Point of wood. **5**
D) Glass Transition Temperature. **5**
E) Wooden crates v/s wooden boxes. **5**

Q.5) A) Explain any 5 types of cushions in industrial products packaging with examples. **10**

B) What are Intermediate Flexible Bulk Containers? Explain FIBCs v/s RIBCs. **10**

Q.6) A) A wooden package is found to have nails protruding out of its edges. Give two reasons and the justification for the same. **10**

B) Draw the two classes of box pallets and explain the three types of box pallets with their designated symbols **10**
