

P. Pages : 2

Time : Four Hours



AU - 2488

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Answer **four** question.
 3. Question No. **5 & 6** is compulsory.
 4. Due credit will be given to neatness and adequate dimensions.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Design a Double Shutter four paneled T.W. Door having width 1.20M and height 2.10M Draw to a suitable scale plan, Elevation Section and any two important fixing details? **14**
- b) State the various uses & physical properties of timber used in building industry? **6**

OR

2. a) Describe with neat sketches **any two** of the following. **10**
 - i) Ledged and battened door.
 - ii) Ledged framed and braced door
 - iii) Flush door
- b) Why preservation of timber is carried out and explain any three methods adopted for preservation of timber? **10**
3. a) Describe with the help of neat sketches the construction and suitability of the following types of windows? **12**
 - i) T.W. Casement window
 - ii) Bay window
 - iii) Vertically & Horizontally pivoted-window
 - iv) Dormer Window
- b) Why seasoning of timber is carried out explain Natural seasoning of timber? **8**

OR

4. a) What are the requirements of well designed roof? **6**
- b) What are ply-wood how they are manufactured and state their advantages and disadvantages? **7**
- c) Draw neat sketch of king-post truss, Explain component parts and denote it's maximum span? **7**
5. Describe with neat sketches **any four** of the following. **20**
 - i) Fully glazed door in T.W.

- ii) Various market forms of timber.
- iii) Anti-termite treatment of timber.
- iv) Particle board and fibre boards.
- v) Lean-to-roof and collar beam roof.
- vi) Ventilators and its importance.
- vii) Gable and corner window.
- viii) Dog-Legged Timber Stair-Case.

6. Explain with the help of neat sketches **any four** of the following.

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- a) T.W. partition and its types.
- b) Queen post-truss roof.
- c) Bifurcated and open well staircase.
- d) Wall paneling.
- e) Requirement of well designed staircase.
- f) Defect in timber due to seasoning.
- g) Fire retardant treatment to timber.
- h) Couple-roof and purlin roof in T.W.
