

B.Arch. Fifth Semester (Architecture) (Old)
Appropriate Construction Technology - I

5 SA 2

P. Pages : 1

Time : Three Hours



AV - 3235

Max. Marks : 50

- Notes :
1. Question No. **five** is compulsory.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Retain the construction lines.
 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. What are the energy saving building materials? Explain through suitable scale the use of different types of energy saving materials & its techniques? 17

OR

2. a) Describe with sketches the cost effective techniques used by Ar. Laurie Baker. 10
- b) Describe with sketches the Ferrocement techniques & its uses? 7
3. Describe & Draw the Brick panel roof with reinforcement to a suitable span. 17
Draw the following
- a) Sectional plan showing details.
 - b) Sectional enlarged details.
 - c) Intermediate supporting systems.

OR

4. Draw a regular dome with span of 6000mm by using 1st class burnt bricks. 17
Draw the following.
- a) Key plan.
 - b) Sectional plan showing brick laying.
 - c) Sectional Elevation.
 - d) Brick laying details.
5. Explain the types of foundations briefly. Draw a pile foundations with pile cap to a suitable scale. 16
