

S.No. : 443

AR 405

No. of Printed Pages : 02

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 00121

Roll
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B. Arch. Examination 2021-22

(Even Semester)

CLIMATOLOGY

Time : Three Hours]

[Maximum Marks : 50

Note :- (i) Attempt any five questions.

(ii) All question carries equal marks.

(iii) Illustrated answers will be give due credit.

1. Traditional architecture in India illustrate the importance of climate "For building design". Justify with suitable examples.
2. Describe in detail the process of preparing a solar chart. Also explain the need of structural controls and how are they achieved through building design.
3. What are the problems of day lighting in hot dry climate and how can they be solved? Support your answer with neat sketches.

[P. T. O.]

4. Describe stack effect and air flow pattern in context of inside and outside of building.
5. Explain time lag, daylight factor, thermal conductivity, psychometric chart.
6. Explain in detail the function of ventilation in office building. Support your answer with examples.
7. What are shading devices? Discuss various kinds of shading devices in detail.
8. Write short notes on any four of the following :
 - (a) Temperature
 - (b) Coriolis force
 - (c) Glare
 - (d) Ventilation
 - (e) Earth's thermal balance
 - (f) Radiation
