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RN-6107

B. Arch. - II (Sem. III) Examination

May / June - 2010

Climatology

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. Arch. - 2 (Sem. 3)

Name of the Subject :
Climatology

Subject Code No. : 6 1 0 7 Section No. (1, 2,.....): Nil

Seat No. :
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Student's Signature

- (2) Figures on right indicate full marks.
(3) Support your answers with neat sketches.

1 True or False :

10

- (i) When the heat transfer takes place through the material in question, the process is referred to as convection.
- (ii) The earth's revolution around its axis results in the changing of seasons.
- (iii) Difference between DBT and WBT is expected to be higher in the humid climatic zones.
- (iv) Psychrometric charts can give us information about different climatic zones in a region.
- (v) Time lag or phase shift property of the material is about periodic heat flow.
- (vi) Stevenson screen is an equipment used to measure wind velocity.
- (vii) The air to air transmittance of heat is usually measured by the quantity called U-value of the material.

(viii) The angle which gives sun's position as relative to cardinal angles is called altitude angle.

(ix) Humidity is represented as a ratio hence no unit.

(x) Average annual rainfall of Surat city is 800 mm.

2 What do you understand by Site climate? Discuss the influence of proximity to open green areas on the site climate. **10**

2 What is 'Precipitation' as an element of climate and how is it measured? What are the different types of rainfall data of interest to Architects/Planners? **10**

OR

2 What are the different types of shading devices? Explain the suitability of each type with respect to different wall facing directions with suitable sketches. **10**

3 Write down the detailed climatic description of Composite climate with a suitable example. **10**

4 Any **two** short notes out of following : **10**

(i) Day light factor

(ii) Various mechanical means for thermal comfort

(iii) Vernacular architecture of Dang forest region.
