

[illegible]

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### SECTION-C

4. (a) Define the term Human thermal comfort with suitable examples.  
(b) Explain in detail the thermal balance of human body and subjective variable affecting it. (12)
5. What are the different types of shading devices? Explain the use of solar chart and shadow angle protector for working out shading devices for buildings. Give illustrated examples. (12)
6. How do clear sky conditions play an important role in daylight harvesting? Support your answer with necessary graphical illustration. (12)

### SECTION-D

7. Discuss in detail the principles and importance of sustainability. What are the various strategies and techniques used for energy saving in the building? (12)
8. Enumerate the typical features and concept of sustainable buildings. Explain with the help of neat sketches and detailed notes, what measures an architect should take for a climate responsive design of project? (12)

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**