

PART – B (5 x 3= 15 Marks)

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| 11. Classify the benefits of intelligent buildings. | CO1- R |
| 12. Narrate the use of Solar passive architecture used in Building design | CO2- R |
| 13. Sketch the Primary Investigation and Stages of Life Cycles. | CO3- U |
| 14. Sketch the Selection of Energy Sources in Building | CO4- R |
| 15. Define Thermal Comfort in Buildings. | CO5- R |

PART – C (5 x 16= 80Marks)

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| 16. (a) Suggest the best choice for intelligent building located in Madurai /Trichy/Chennai area. | CO1-Ana | (16) |
| Or | | |
| (b) Analyze the smart buildings and its strategies in smart buildings with suitable examples? | CO1-Ana | (16) |
| 17. (a) Suggest one of the best energy sources which could optimize the cost in the Indian smart buildings with suitable examples | CO2-Ana | (16) |
| Or | | |
| (b) Analyze about the emerging efficient design strategies adopted in a smart building with suitable case studies? | CO2-Ana | (16) |
| 18. (a) Explain briefly about Construction and Stages of Energy in Building Design. | CO3-U | (16) |
| Or | | |
| (b) Explain briefly about Passive Heating And Cooling System in Buildings | CO3-U | (16) |
| 19. (a) Explain briefly about Trends in Energy Consumption. | CO4- U | (16) |
| Or | | |
| (b) Explain briefly about Energy Performance of Existing Building. | CO4- U | (16) |
| 20. (a) Explain briefly about Interior, Quality, and Thermal Comfort in Buildings. | CO5- U | (16) |
| Or | | |
| (b) Explain briefly about Classification of HVAC System and Its Requirements. | CO5- U | (16) |