Turn Over



Max. Marks: 100



QP CODE: 24804318

Reg No :

B.ARCH DEGREE REGULAR/SUPPLEMENTARY EXAMINATIONS, AUGUST 2024

Sixth Semester

BACHELOR OF ARCHITECTURE

19AR06006 - BUILDING SERVICES - III

2019 Admission Onwards

D0CD7672

Time: 3 Hours

Part A

Answer any six questions out of Eight. Each question carries 5 marks.

- 1. Difference between active and passive cooling.
- 2. Materials with low thermal conductivity.
- 3. GRIHA.
- 4. Air handling unit (AHU).
- 5. How is sound propagated?
- 6. How sound isolation can be done?
- 7. Write short note on Air borne and structural borne noise.
- 8. What are the effects of noise?

(6×5=30)

Part B

Answer any four questions out of six. Each question carries 10 marks.

- 9. Differentiate between natural ventilation and mechanised ventilation with uses.
- 10. Discuss all types of heating load while desiging any HVAC system.
- 11. Role of dampers in duct system.
- 12. Differentiate between threshold of hearing and threshold of pain.



- 13. Explain signal to noise ratio and how it effects intelligibility.
- 14. Describe the properties of sound insulation materials, support your answer with examples.

(4×10=40)

Part C

Answer any two questions out of Four. Each question carries 15 marks.

- 15. Discuss the importance and relationship between temperature, humidity and ventilation for thermal comfort also discuss its use in HVAC system design.
- 16. What are the types of refrigerants used in District cooling? Why?
- 17. Explain the relationship between room shape and acoustical performace with examples.
- 18. How landscape play an important role in external sound isolation? Explain with sketches.

(2×15=30)