

933Register No.: **October 2018**

Time – Three hours
(Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.
Answer any FOUR questions from the remaining in each PART – A
and PART – B
(2) Answer division (a) or division (b) of each question in PART – C.
(3) Each question carries 2 marks in PART – A, 3 marks in Part – B
and 10 marks in PART – C.]

PART – A

1. Define lift car and lift well.
2. State the principles of refrigeration.
3. Define control of humidity.
4. Name any two fire fighting equipments.
5. Define fire load.
6. What is a sound insulator?
7. Define echo and acoustics.
8. Name any two maintenance works in buildings.

PART – B

9. Differentiate between lift and escalators.
10. What are the uses of escalators?
11. Name any four mechanical ventilation systems.
12. What are blowers and air filters?
13. State the principles of acoustics.
14. What are the common acoustical defects?
15. Write the necessity of maintenance of building.
16. State the effects of fire.

[Turn over.....]

PART - C

17. (a) Explain the components of a lift with neat sketch.
(Or)
(b) Prepare the construction provision for an escalator.
18. (a) Draw a window air conditioning unit and explain its features.
(Or)
(b) Write short notes on (i) Mechanical ventilation in building
(ii) Heating of spaces.
19. (a) (i) What are the causes of fire?
(ii) Explain fire protection systems.
(Or)
(b) Write short notes on (i) Fire escape routes (ii) Sprinklers (iii) Fire dampers.
20. (a) What are the requirements of sound absorption materials?
Explain the types of materials.
(Or)
(b) How will you provide acoustics treatment to a cinema theatre?
21. (a) What are the common methods of crack repair and special precautions for repairs of buildings?
(Or)
(b) How will you repair the following (i) Improper laying of weathering course (ii) Rainwater leakage in buildings.
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