

B. CON. ENGG. 2ND YR 1ST SEM. EXAM.- 2018Subject: **BUILDING SERVICES**Time: **Three hours**Full Marks: **100***Answer any Ten questions*

1. Describe Simple Refrigeration Cycle system with a schematic diagram.
2. Write short note on any **two** of the followings: **2X5=10**
 - a) Desert Cooler.
 - b) Air Handling Unit.
 - c) Escalator.
3. Describe basic components of Elevator/ Lift system in cross sectional diagram (may not be in scale).
4. Describe different types of Elevators/ Lifts according to their usages.
5. Describe with neat sketches the different layouts used in Water Distribution System.
6. Describe different types of Fire Fighting System of a building.
7. Describe with sketches any **two** of the followings: **2X5=10**
 - a) Different types of Traps in Plumbing System.
 - b) Difference of Manholes & Lamp holes.
 - c) Different types of Taps or Cocks of Sanitary fittings.
8. Describe the different parts of Septic Tank with neat sketches (may not be in scale).
9. Describe in brief the general principles and factors in Acoustical Design of an Auditorium.
10. Write short note on the followings:
 - a) Reflection of Sound and Reflecting Surfaces.
 - b) Reverberation Time.
 - c) Open Air Theatre.
11. Draw with colour code the distribution of 3-phase Circuit in G+4 apartment with two flats in each floor by cross-section.
12. Show the Electricity distribution System from Regional Power Station to Consumers in a chart form.
13. Draw symbol used in Electrical Installation system of any **five** of the followings: **5X2=10**
 - a) Light Bracket.
 - b) 3- Pin 15- Ampere Socket outlet.
 - c) Ceiling Fan.
 - d) Distribution Fuse Board without switch for power.
 - e) Earthing Point.
 - f) Two way Switch.
14. Write short note on any **two** of the followings: **2X5=10**
 - a) Fluorescent Lamp.
 - b) Vapour Lamp.
 - c) Pipe Earthing.