



12. (a) Explain in detail the design and the measurement for natural ventilation in a building.

Or

(b) Discuss the air conditioning systems for different types of buildings and protection against fire caused by AC system.

13. (a) Describe the methods of sound absorption in buildings. Explain how will you estimate absorption coefficient of the hall.

Or

(b) Write notes on

(i) Visual field glare

(ii) Day light calculation

(iii) Day light factor.

14. (a) Discuss the classification of composites. Give detailed study of FRP and FRM.

Or

(b) How are metallic glasses prepared? Explain how the melt spinner device can be used to produce metallic glasses. List the advantages of metallic glasses as transformer core materials.

15. (a) Explain in detail the seismic waves and write a brief note on seismology.

Or

(b) Discuss in detail the cyclone and the flood hazards. What are the safety measures.