



12. (a) State Sabine's formula. Derive the absorption Coefficient equations using growth and decay method.

Or

- (b) Explain the various factors affecting acoustics of buildings and illustrate sound insulation methods.

13. (a) Explain the relationship between luminescence and radiant quantities

Or

- (b) Explain the hemispherical reflectance and transmittance spectrum and discuss the measurements of day-light.

14. (a) Give a detailed report on Fibre Reinforced Plastics (FRP) and Fiber Reinforced Metals (FRM).

Or

- (b) Explain the characteristics of ferroelectric and ferromagnetic ceramics.

15. (a) Explain the occurrence of earthquake ground motion and its estimation techniques.

Or

- (b) Give a detailed report on fire prevention and safety regulations and fire fighting equipment.

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