



B.E / B.Tech. Degree End Semester Examinations, October / November 2012
Second Semester
PH9161 PHYSICS FOR CIVIL ENGINEERING
(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks: 100

PART – A

(10 × 2 = 20 Marks)

1. What is seismology?
2. Mention the fire safety regulations.
3. What is meant by average -day -light factor?
4. Mention a few sound absorbing materials:
5. What are metallic glasses?
6. What is the role of matrix in FRP in composites?
7. What is natural ventilation?
8. What are the characteristics of good refrigerant?
9. What is meant by fenestration?
10. Mention a few important factors affecting the thermal performance of buildings.

PART – B

(5 × 16 = 80 Marks)

11. Discuss various Hazards due to fire and the precautionary measures one has to take to meet the situation.
12. (a) Give an account of structural composite materials.

(OR)

- (b) Explain the different ceramic fabrication techniques.

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13. (a) Write a short note on (i) artificial lighting and (ii) different types of noises in buildings. (8 + 8 Marks)

(OR)

(b) Discuss the methods of sound absorption in buildings.

14. (a) Discuss the heat flow through compound media in series and in parallel.

(OR)

(b) Derive an expression for thermal conductivity in case of solids in the form of pipe using radial flow of heat.

15. (a) Discuss the fan coil with its block diagram and protection against fire caused by AC system.

(OR)

(b) Describe with neat block diagram, the function of a refrigeration cycle.