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B.E. / B. Tech (Full Time) DEGREE EXAMINATION, APRIL/ MAY2014.

CIVIL ENGINEERING BRANCH

SECOND SEMESTER

PH 181– PHYSICS FOR CIVIL ENGINEERING/  
PH 9161– PHYSICS FOR CIVIL ENGINEERING  
(Regulation 2004/2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A – (10 x 2 = 20 Marks)

1. Explain different types of heat flow?
2. Explain the thermal performance of a building.
3. What is ventilation?
4. What are the different types air filters?
5. What are the methods of sound absorptions?
6. What is glaring of light?
7. What is Fibre reinforced plastics(FRP)??
8. What are the applications of shape memory alloys?
9. What are P and S waves in earth quake?
10. What are the fire prevention codes?

PART B – (5 x 16 = 80 Marks)

11. Explain in detail the thermal insulation of the buildings.
12. (a) Explain in detail the natural ventilation of the buildings.

OR

(b) Discuss in detail the air conditioner system of buildings.

13. (a) Write in detail the various methods of sound insulation.

OR

(b) Write in detail the artificial lightings and its applications.

- 14. (a) Explain in detail the preparation, characterization and the applications of the metallic glasses

OR

(b) Discuss in detail the preparation, properties and applications of ceramics.

15. (a) Discuss in detail about the earth quake and explain in detail the method of measuring earth quake.

OR

(b) Explain in detail about the fire hazards.