

18/10/13

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

B.E. / B. Tech (Full Time) DEGREE EXAMINATION, NOV/ DEC.2013.

CIVIL ENGINEERING BRANCH

SECOND SEMESTER

PH 8203 – PHYSICS FOR CIVIL ENGINEERING  
(Regulation 2012)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A – (10 x 2 = 20 Marks)

1. What is steady state flow of heat?
2. Explain the thermal insulation and its benefits
3. What is natural ventilation?
4. What are needs for the air filtration?
5. What are the sources of the noise?
6. What is glaring of light?
7. What is Fibre reinforced plastics?
8. What are the applications of ceramic?
9. What is seismic waves?
10. What are the fire prevention codes?

PART B – (5 x 16 = 80 Marks)

11. Explain in detail the central heating system in a building and also explain the thermal performance of the buildings.
12. (a) Explain in detail the requirements, measurements and the design for natural ventilation.

OR

- (b) Discuss in detail the window type and packaged air conditioner systems.
13. (a) Write in detail the various methods of sound absorptions. What are sound absorbing materials?

OR

- (b) Write in detail the principles and techniques involved in the artificial lightings