Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 90493

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019
Second Semester
Civil Engineering
PH 8201 – PHYSICS FOR CIVIL ENGINEERING
(Regulations 2017)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions

PART – A **(10×2=20 Marks)**

1. What is thermal insulation ?
2. Write at least two advantages of fan coil systems.
3. Classify sound waves based on frequency.
4. Mention few methods to measure sound absorption coefficients.
5. Define luminous intensity.
6. What are photopic, mesopic and scotopic ?
7. What are the types of fibre reinforced plastics ?
8. What is pseudo elasticity ?
9. Define intensity of earthquake.
10. List the methods of flood prevention.

PART – B **(5×16=80 Marks)**

11. a) Explain the various factors that affect thermal performance of buildings.

(OR)

b) Discuss in detail the ventilation in a building and explain how natural ventilation is measured ?

12. a) i) What are the remedies to protect good acoustics of the building ?
    ii) How will you measure the noise produced inside the building ?

(OR)

b) Discuss the various types of sound absorbing materials.

13. a) Discuss the different radiometric quantities.

(OR)

b) Describe principles of artificial lighting and supplementary artificial lighting.

14. a) How are metallic glasses prepared ? Explain how the melt spinner device can be used to produce metallic glasses.

(OR)

b) Discuss the characteristics, advantages and applications of ceramic fibres.

15. a) Describe fire proofing materials.

(OR)

b) Discuss the various earthquake hazards and explain the disaster mitigation after earthquake.
