Total No. of Questions: 8

SEAT No. :	
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M.E. (Civil) (Water Resource and Environmental Engg.) NOISE POLLUTION AND CONTROL TECHNIQUE (2012 Course) (Semester - II) (Elective - III)

Time: 3 Hours [Max. Marks: 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in a separate answer books.
- 2) Attempt three questions from each section.
- 3) Figure to the right indicates full marks.
- 4) Neat diagrams must be drawn wherever necessary.

SECTION - I

- Q1) Explain sound propagation characteristics with neat sketch. Clarify how sound is absorbed in air.[16]
- **Q2)** Define intensity of noise? How it can be measured? Also discuss equal Loudness counters with neat sketch. [16]
- Q3) Discuss with sketches sound/noise signal and its power spectrum. [16]
- **Q4)** Write note on: [18]
 - a) Sources of noise.
 - b) Protective equipment's and basic principles of noise control.
 - c) Sound level meter.

SECTION - II

Q5) Enlighten the effect of noise on task performance and Cardio- vascular system.Explain with case studies. [16]

- **Q6)** a) Enlist various sources of noise pollution specially related to civil Engineering works. How they are controlled at source. [8]
 - b) Discuss various sources of Noise from industry and its control measures. [8]
- Q7) Explain in detail traffic noise? Also discuss any one case study of traffic noise due to various vehicles.[16]
- Q8) Write note on: [18]
 - a) Existing legal provisions for controlling noise and noise level standards.
 - b) Air craft and Airport noise any case study.
 - c) Noise pollution control measures.

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