

Roll No

MMTP-301(B)
M.E./M.Tech., III Semester
Examination, December 2016
Engine System Modelling and Analysis
(Elective-I)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Discuss basic system modelling.
b) Explain continuum and discrete system.
2. Discuss all types of system models.
3. a) Explain the methods of measuring probability functions.
b) How means variance is estimated?
4. Draw actual engine cycle and analyse it thoroughly.
5. How basis engine cycles are simulated?
6. How modelling of carburetion and injection process is done?

7. Draw a flow chart of a simulation process of suction, compression and exhaust processes.
8. Write short notes on followings:
 - a) Discrete and continuum probability function
 - b) Use of combustion charts.
