# MGM’S College of Engineering, NANDED.

**Department of Mechanical Engineering**

**QUESTION BANK FOR TEST-** **I**

ACADEMIC YEAR 2013-14, SEM – II

Class: B.E. (Mech.) Subject: RAC Date:15/02/2014

Duration : 01 Hr. Max. Marks: 20

Q. 1 a) Explain with sketch the wiring diagram and P.H. diagram of house hold Refrigerator.

b) What are the various types of Refrigeration system? Explain Air refrigeration cycle.

Q. 2 With block diagram and P.H. diagram explain simple evaporative air refrigeration

Cycle and bootstrap evaporative air refrigeration cycle.

Q. 3 Write notes on.

a) Regenerative air Refrigeration cycle.

b) Bootstrap and Bootstrap air refrigeration cycle.

Q. 4 Explain how ambient air refrigeration cycle is more effective than simple air refrigeration

Cycle explain with block diagram and P.H. diagram.

Q.5 a) How heat pump, heat engine & refrigerators are analyzed? Explain with block diagram.

b) Define C.O.P. and prove that C.O.P. of heat pump is greater than C.O.P. of refrigerator.

Q.6 Numerical on Air refrigeration cycle.

Q.7 Numerical on Air refrigeration cycle.

Q.8 Enlist various types of refrigerants and classify them mentioning with chemical formulas.

**Dr. M.G.Harkare**

**Subject Incharge**