SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY SCHOOL OF MECHANICAL ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING

SPR1307 – RESOURCE MANAGEMENT TECHNIQUES ASSIGNMENT – II Total = 15 Marks

ANSWER ALL THE FOLLOWING (5X1 = 5 Marks)

- 1. The time between two successive requests arriving called the
 - a) Inter arrival Time b) Arrival Time c) Poisson Distribution d) All the above
- 2. Group replacement policy is most suitable for
 - a) Trucks b) Infant machines c) Street Light Bulbs d) New cars
- 3. The following is not discussed in group replacement policy
 - a) Failure probability b) Cost of Individual Replacement c) Loss due to failure d) Present worth factor series
- 4. The replacement policy that is imposed on an item irrespective of its failure is
 - a) Individual Replacement b) Group Replacement c) Repair Spare Replacement d) Successive Replacement
- 5. In replacement analysis the maintenance cost is a function of
 - a) Time b) Resale Value c) Initial Investment d) All the above

ANSWER ALL THE FOLLOWING (5x1 = 5 Marks)

- 1. Define a queue
- 2. What is salvage value?
- 3. What is present worth factor
- 4. Describe briefly some of its replacement policies
- 5. What is meant by running cost?

ANSWER THE FOLLOWING (5x1 = 5 Marks)

- 11) I) Machine A Cost is Rs.9000 and annual operating cost is Rs. 200 for the first year and then increases by Rs.2000 every year. Determine the best replacement policy for Machine A.
 - II) Machine B cost Rs.10000. Annual operating cost is Rs 400 for first year and then increased by Rs.800 every year. Determine the best replacement policy for Machine B.
 - III) Finally which machine should be replaced either machine A or machine B