

**Seventh Semester B.E. Degree Examination, Dec.2013 / Jan.2014**  
**Engineering Economy**

Time: 3 hrs.

Max. Marks:100

**Note:** 1. Answer any FIVE full questions, selecting atleast TWO questions from each part.  
 2. Use of discrete interest tables is permitted.

**PART - A**

1.
  - a. Distinguish between strategy and tactics with suitable examples. (05 Marks)
  - b. Explain the law of demand and supply with suitable example. (05 Marks)
  - c. Determine the effective interest rate for a nominal annual rate of 6% that is compounded i) Semi- annually ii) Quarterly iii) Monthly iv) Daily. (06 Marks)
  - d. A person invests a sum of Rs 50,000/- in a Nationalized Bank at a Nominal interest rate of 18% for 15 years. The compounding is monthly. Find the maturity amount of the deposit after 15 years? (04 Marks)
2.
  - a. State the conditions for present worth comparisons. (06 Marks)
  - b. Determine the equivalent present worth of the following series of year and cash flows extending over 8 years using annual interest rate of 20%. (04 Marks)



- c. What do you understand by present worth by T2 rule? (03 Marks)
  - d. An Entrepreneurs intending to start a New Business knows that the first few years are the most difficult. To Lessen the chance of failure a loan plan for start up capital is proposed in which interest paid during the first two years will be at 3%, 6%. For the next 2 years if 12% For the last 2 years of the 6 years loan. How large a loan can be justified for proposed repayments at the end of 2, 4 and 6 respectively for Rs 20,000/- , Rs 30,000 and Rs 50,000/- for 2<sup>nd</sup> , 4<sup>th</sup> and 6<sup>th</sup> year respectively. (07 Marks)
3.
  - a. Two types of power converter Alpha and Beta are under consideration for a particular application. An economic comparison is to be made at an interest rate of 10%. Following cost estimation has been obtained. Determine the Annual Equivalent costs of the two systems, select the best converter. (04 Marks)

Cost Particulars	Alpha	Beta
Purchase price	Rs 10,000/-	Rs 25,000/-
Estimated service life	5 years	9 years
Salvage value	Rs 3,000/-	Rs 5,000/-
Annual operating cost	Rs 2500/-	Rs 1200/-

- b. A Conventional Agricultural Equipment has a service of 6 years. The estimated cost of the equipment is 50% costlier than the conventional one but has many advantages. The operating costs of both these equipment are almost same and salvage value is negligible. What will be the service life of the New equipment that makes its cost comparable to that of the conventional one at  $i = 10\%$ ? (10 Marks)
4.
  - a. Define the following terms : i) MARR ii) IRR iii) ERR. (06 Marks)
  - b. Explain the causes for depreciation. (06 Marks)
  - c. An XYZ company has purchased an equipment whose first cost is Rs 2,00,000 with an estimated life of 8 years. The estimated salvage value of the equipment is Rs 40,000 at the end of its life time. Determine the depreciation charge and book value at the end of various years using SOYD method. (08 Marks)



# Mechanical Engineering 7th Sem Question Papers

**Raffaela Di Napoli**



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