Subject Code: H2201/R13

M. Tech –II Semester Regular/ Supply Examinations, October, 2015

TRANSPORTATION ECONOMICS AND PROJECT APPRAISAL

(Transportation Engineering)

Time: 3 Hours **Max Marks: 60**

Answer any FIVE questions

All questions carry EQUAL marks

****

1. (a) Write an over view on applications of welfare theory and equilibrium conditions.
   (b) Write the salient features and major contributions yielded from the Road User Cost studies in India?

2. (a) Write short note on non-user impact analysis?
   (b) State the goals and objectives of transport economic analysis?

3. (a) Explain the components considered and the principles adopted for allocation of resources within transport sectors?
   (b) Explain the influence of pricing policies on financing of transport sectors?

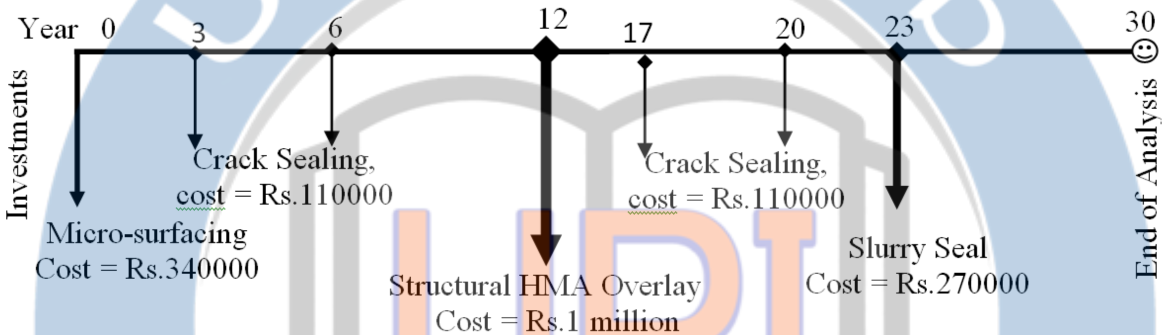
4. (a) Explain the basic principles of economic evaluation using different Factors?
   (b) Write the incentives to be given to the private parties and the key challenges to be faced at (i) initial stage and
   (ii) during implementation/operation stage?

5. (a) State the classification of costs involved with LCCA? Write their different components used for estimation of proposed costs?
   (b) Explain how economic analysis is carried out for BOT Annuity and Toll mode of projects and its allocation procedures with case studies

6. (a) Explain the basic cost components to be considered in economic evaluation?
   (b) Explain the basic components considered for economic evaluation of highway projects?

7. (a) Write the principles of TQM?
   (b) Explain the stages of TQM implementation?

8. Following is an example Life Cycle Cost of a proposed plan with an Alternative treatment spread over an analysis period of 30 years. Details of proposed best suitable treatments with their costs of construction and their time of activities are shown below. Take the value of discount rate as 4.5 % and consider inflation rate as 1.2 % per year, on all the costs of maintenance. Determine the Net Present Value?



*****