

Seat No.	
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**M. Tech.(Civil Engineering) (Construction Management)  
(Part - I) (Semester - I) Examination, December - 2018  
CM 103 : PROJECT ECONOMICS AND FINANCING  
Sub. Code: 72074**

Day and Date : Monday, 03 - 12 - 2018

Total Marks : 70

Time : 10.00 a.m. to 12.30 p.m.

- Instructions :**
- 1) Attempt any four questions.
  - 2) Figures to the right indicates full marks.
  - 3) Make suitable assumptions if necessary.

- Q1) a)** Explain equivalence and use of multiple factors. [9]  
**b)** Which alternative is preferred from following, assuming interest rate 12% [9]

	Alternative A	Alternative B
Initial cost	Rs.9,00,000	Rs.12,00,000
Useful life	10 Years	12 Years
Annual expenses	Rs. 30000	Rs.20000
Salvage value	Rs. 90000	Rs. 1,50,000

- Q2) a)** Explain with example Break even analysis. [8]  
**b)** How fuzzy system can be applied for risk analysis. [9]
- Q3) a)** What are component of working capital. Explain its financing. [8]  
**b)** Describe PPP model and its suitability to construction projects. [9]
- Q4) a)** Explain Record and Reporting of construction site accounts. [8]  
**b)** Compare NPV and IRR method for economic appraisal of projects.[9]

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- Q5) a)** How Decision free analysis is used in Risk analysis and its management.[8]  
b) How construction costs are classified and also explain their budgeting and control. [9]

**Q6) Write short note on following (any three) [18]**

- a) Inflation and real rates of interest
- b) Sources and finance of construction projects
- c) BOT and BOOT
- d) MARR and its estimation.

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