

I Awary, Mangalore 20SCS321 USN Third Semester M.Tech. Degree Examination, Feb./Mar. 2022 **Engineering Economics** Max. Marks: 100 Time: 3 hrs.

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
1	0	Module-1  Briefly explain Role of Engineering Economics Analysis, with an example.	(10 Marks)
1	a. s	Describe the different types of Elements in Decision Making Process.	(10 Marks)
	υ.		
•		OR	(06 Marks)
2	a. b	List out different types of Estimating Models. Classify different Engineering costs with an example.	(08 Marks)
	b. c.	Calculate the time required to product the hundredth unit of a production run if t	
	О.	took 32.0min to produce and the Learning – curve rate for production is 80%.	(06 Marks)
•	900	Module-2 Compare Cash flows, Time value of money, Equivalence.	(10 Marks)
3	a.	Compute Simple and Compound interest, using an Interest rate 8% per year	
	b.	interest. How will this change affect the amount that your friend pays you at the	he end of 5
		years?	(10 Marks)
		OR	(10 Marks)
4	a.	Derive Single Payment Compound Interest using Equivalence rule.  Write a short note on: i) Nominal Interest ii) Effective Interest.	(10 Marks)
	b.	Write a Bhore here on 1.9	h
		Module-3	(10 Mandan)
5	a.	Explain Annual Cash Flow Analysis.	(10 Marks) (10 Marks)
	b.	Describe Internal Rate of Return Analysis with respect to Cash Flow Analysis.	(10 Marks)
OR			
6	a.	Explain Benefit Cost Ratio Analysis.	(10 Marks)
	b.	Briefly explain Sensitivity and Breakeven Analysis.	(10 Marks)
		Module-4	
7	а	Briefly describe Definitions for Considering Inflation in Engineering Economy.	(10 Marks)
•	b.	Define Price Index. Explain Composite Versus Commodity Indexes.	(10 Marks)
		OR	
0	0	Describe Cash flows that inflate at different rates in Engineering Economy.	(10 Marks)
8	a. b.	Show that different inflation rates per period in Price Index.	(10 Marks)
_		Module-5  Direct of Development Analysis	(10 Marks)
9	a.	Briefly explain cost of Borrowed Money in Economic Analysis.  Explain a selecting a minimum attractive rate of return in Inflation and Deflation	
	b.	Explain a selecting a minimum attractive rate of feturi in inflation and Deflation	(10 Marks)

OR

a. /Illustrate Representative values of MARR used in Industry. (10
b. Discuss Spread sheets, Cumulative Investments and the Opportunity Cost of Capital. (10 Marks) 10

(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.