

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

Mid-Autumn Semester 2022-23

Date of Examination: Session (FN/AN) Duration 2 hrs Subject No.: EP 60044 Subject Name: Frugal Engineering Department/Center/School: Rajendra Mishra School of Engineering Entrepreneurship Specific charts, graph paper, log book etc., required Special Instructions (if any):				
1.		m, the conceptual frugal innovation frameworengineering' approaches as a building block fo	r reverse	ng of rks: 4]
2.	a) "Enterprises are challenged, to come up with new value propositions with new ways of thinking in terms of 'Quality' and 'Affordability'; 'Quality' being the fulcrum." – Explain; and			
	b) Discuss on two examples of Frug	ally Engineered 'healthcare product/ system.	[Marks:	3 + 4]
3.	Explicate the 'unique value proposi frugal innovation.	tion (UVP)', involving its four salient elements	s, in the cont	text of [5]
4.	a) Briefly describe the features integral to frugal design (FD) approach, concerning FD Thinking and			
	b) Elucidate the Principles in Frugal	Design in details.	[Marks:	3 + 6]
5.	Expound the steps of any widely use	ed Design Thinking Model		[5]