## Indian Institute of Technology Kharagpur Department of Humanities and Social Sciences

Department of Humanities and Social Sciences				
Date:FN/AN		: 2 hrs	Full Marks: 30	No of Students: 412
Autumn Mid-Sem. Exam,				Subject No: HS20001
Instructions: (1) Answer one question in one place only, otherwise they will not be evaluated.				
(2) All questions are compulsory.				
1. (a) Discuss how the assumptions of Cardinal measures of utility vary from the assumptions				
of Ordinal measures of utility. What are the basic criteria of consumer's equilibrium under				
indifference curves analysis		- C 1	10	(2+2)
(b) What are the exception	s to the I	aw of dem	and?	(1.5)
(c) Discuss the major determinants of price elasticity of demand. Hero India manufactures and sells bicycles. Management believes that price elasticity of demand is (-) 3. Currently,				
bicycles are priced at INR 1,200 per unit and the quantity demanded is 10,000 per annum.				
i) If the price is increased to INR 1,300 per unit, how many bicycles will the company be able				
to sell each year?				
ii) How much will total rev	enue ch	ange as a r	esult of the price incr	rease? (2.5+1+1)
			_	,
2. (a) Present the circ	ular flo	w diagrai	n for a closed ed	conomy and discuss the
interdependence among different economic agents and offer implications. (2)				
(b) Define and distinguish between (i) capital and investment, (ii) gross investment and net				
investment. Find the role of MEC and rate of interest in the decisions to invest in an				
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Patanjali is considering a new investment proposal. The conceived project has an initial (in				
the first year) capital requirement of INR 1200 Cr and the project will last for 4 years. The				
annual prospective yields for this project are given as follows.  Year Prospective Yields (in Crore)				
1	Flosp		ids (in Crore)	
2		400 400		
3		400 440		
4		480		
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The market interest rate is estimated to be 10%. Following the rules of the MEC, suggest whether the project is worth-considering.				
(c) Define investment multiplier and discuss how the slopes and intercepts of different				
demand functions of a closed economy affect the value of the multiplier and income.				
Suppose, an economy plans to make an initial investment of 50. It consumption function is				
expressed as				
C = 200 + 0.8Y (Y)	represent	ts current i	ncome)	
Derive initial equilibrium income. If an additional investment of 40 is made in the economy				
what are its effects on the new equilibrium income under the condition that investment is				
once-over type? Make both	algebrai	c and tabu	lar presentations and	interpret. (2+2)
(a) Discuss the underlying economic theory for construction of index number using consumer				
behaviour analysis. (5)				
(b) Write short note on the	followin	g:		(2.5+2.5)
(i) Capitalism				(=== 2.5)
(ii) Value-added approa	ch to me	asure GDI	)	

3.