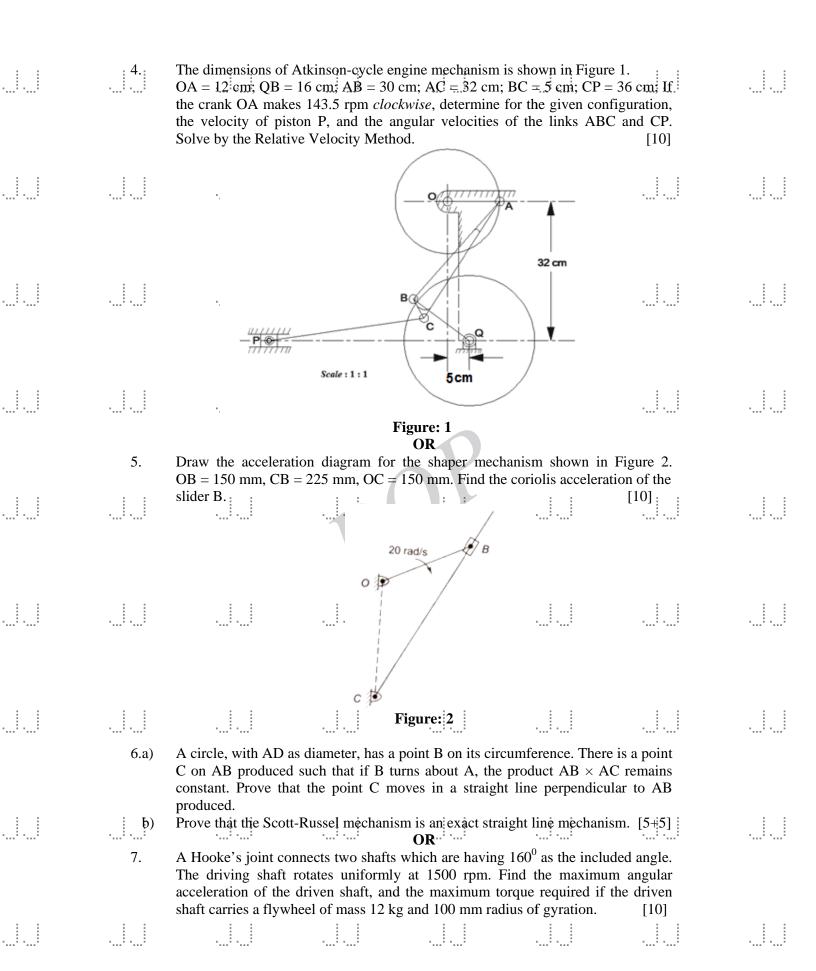
	No: 114CZ WAHARLAL NE	HRII TECHNOI	OGICAL ENIV	ERSITY HYDEI	R13
· 9 71		II Year II Semeste KINEMATICS		May - 2016	
Time:	: 3 Hours	(00000000000000000000000000000000000000	12, 1101, 1121(1)	Max.	Marks: 75
Note:	Part B consists Each question carr	per contains two parties of 5 Units. Answers with NEAT	25 marks. Answer wer any one full may have a, b, c a	l question from as sub questions.	
		PAR	Γ-Α		25 Marks)
1.a) b) c) d)	Distinguish between a machine and structure. What is Gruebler's Criterion, and how is it obtained? Distinguish between centrode and axode. State and explain the Three centers in line theorem. What are the advantages of Peaucellier mechanism over Hart mechanism? [2]				
g) h)	Draw the sketch of a Double Hooke's joint, and explain its main advantage over Single Hooke's joint. [3] Name and explain any two types of followers used with cams. [2] Write the expressions for maximum velocity and maximum acceleration during the outward stroke of a follower moving with SHM, in terms of Angular velocity				
i) j)		the law of gearing ple of working of	an Epicyclic gear		[3] [2] [3]
		PAR	Г - В	(:	50 Marks)
2.a) b)	The driving crank return stroke is 2. the crank corresponding	ck- return motion at its 40 mm long, at Find the length conding to the cutting: Mechanical Adva	nd the ratio of tim of the fixed link a ng stroke and retur	ne of cutting stroke and the angles of rn strokes.	te to that of rotation of
-,	1		-		[5+5]
3.a)	Describe, with a n of the double slid mechanism is an e	neat sketch, the wo der crank chain.			
b)		: Successfully cons	strained motion, F	lexible link.	[6+4]
]]	.1.1	!!]]	



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