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LES TORDAN UNIV	ERSITY FOR SO	3			FIRST	EMESTER	
	F OF PHYSICAL		101 (Fi			18/1999 I	
Student Name	باللغة العربية):	)			Univ. ID No. :-		
30 ANSWER THE	FOLLOWING	QUESTIONS	AND CIRCLE	THE CORRECT	ANSWER ON T	HE COVER SHEE	т
PROVIDED , C	CONSIDER g=1	0 m/s <sup>2</sup> and ap	proximate your s	inswer to those g	fiven for each que	estion .	
(i) (Q(1), Given A = 1	5 i + 2 J - k and b) i0.7	C)/0.9 B = 4 i - 3 j +	2 k, the magnit d) 10.3	ude of R = A -	2 B is equal to ;		
	1, the angle betw b) 66.0	een the two ve	ctors A and B is d) 90.0	s equal to;	/		
(QJ) If C is equal	d to A x B where	and B are the	two vectors give	n in question 1 . T	The vector C is eq	ual to 7	
	23 k b) 1 -12 j -						
						and t in seconds. Th	ne /
a) 25	of this particle in the b) 30	e time interval	(0,40)	nd t = 3 s in units	of ( m/s ) is equal	to:	
0.4				400	*		,
m/s 1. The velocit	, a particle moving ty of the particle at b) 10 i - j			v , ZSi+ Sj mVs	and acceleration	given by # = 21 - 3	1 /
2) 81 - j			- 11				
	e moving in the 3 to particle in the tin b) 56.7 j	ic interval betw	een t = 3 s and t =			It I m. The averag	ic /
		(a) 57.6 j	d) 54,9 j			4	/
Q.7) A ball is to	thrown with an in	tial velocity vo	= 3 i + 2 j ( m/s	s). The velocity of	of the ball at t= 0.0	14 s in units of (m/s)	is
a) 31 +1.7]	(b) 3 i + 1.6 j	c) 3 i + 1.5	0 j d) 3 i + 1.8 j	j	1		
Q.8) In question a) 0.06	7, the vertical disp 0.19	accordent of the c) 0.11	particle at x = 0.5 d) 0.15	(m) is equal to			
0.9) In question	7 above, the range	of the ball is ea	aual to				
(1) 1.2 m	b) 4.2 m	c) 2.4 m	d) 0.72 m				
A particle	moving in a circu ( m/s <sup>2</sup> ) is equal to	ilar path of radi	us I in with a spec	ed v = 3 t m/s.t	he nurgnitude of it	s acceleration at - t	- /
@ 3.33	b) 3.06	c) 3.11	d) 3.75				
						force as shown in the	
figure below . If i	the coefficient of ki	netic inction is		and the surface is	s (0,25), the acco	deration of each bloc	*
100					2 kg	3 kg 4 kg	
100				F			
a) 4.2	b) 3.0	@ 6.4	d) 5.3		[325g] =	2 - 283	- 1
707		0		-/ -/			
Q12) In the figure suspended block i	are below, the goet in units of invs is a	licient of kinet equal to	ic friction between	the block and the	e incline is 0.6 . T	he acceleration of the	e
a) 6.02	6 5.74	c) 6.52	d) 5.88	1	/	271	
132.	0	44 1000		2.60	~//		
				2 kg	(1)	3 kg	
					×. 1	2	
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- DAY				C	Good Luck		
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52.7			*				Hox 2
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