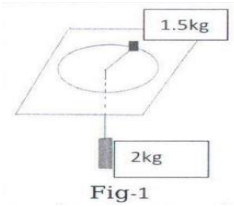
4th week

Assignment for the H.S.C Examinee -2022

Subject : **Physics** Paper : 1st Sub. Code : 174 Class : HSC Examinee -2022

Assignment No	Assignment	Learning Outcome /Contents	Instruction (Hints/ Step/ Depth)
3 **Chapter : 4** **Newtonian Mechanics**	 Fig-1 Lets think about the problem of assignment -01. Now the thread connected to 1.5 kg is passed through a hole of a table in Fig -01 and the body 2 kg is hung according to assignment 01 . The body 1.5 kg rotates with uniform speed. Friction constant is 0.2 a) Write the Newton's equation for the body 1.5 kg rotating with uniform speed. b) What is the amount of work for the uniform rotation of the body 1.5 kg ? c) What should be the speed of the body 1.5 kg to hold the body 2 kg at rest ? d) Draw the velocity –time graph of the body 2 kg when speed of 1.5 kg decreases gradually due to friction .	* The students will use the Newton's law of motion	Newtonian Mechanics

Assessment Criteria(Rubrics)

Serial No	Indicator	Level of expertise				Score	Comments
		4	3	2	1		
a	Presentation with acceptable answer	-	Presenting acceptable answer including required information and mathematical formula	Presenting answer with mathematical formula only	Presenting only concept / Presenting only formula		
b	Presentation with acceptable answer	-	-	Presenting acceptable answer including required information and mathematical formulas	Presenting only concept / Presenting only formula		
c	Presentation with acceptable answer	-	Presenting acceptable answer including required information and mathematical formula	Presenting partial answer with mathematical formula only	Presenting only concept / Presenting only formula		
d	Drawing Qualified Graph	Drawing Graph with correct scaling finding required information correctly	Drawing Graph finding required information correctly	Finding required information correctly / Drawing Graph with correct scaling	Graph Drawing / Presenting concept		
Total Number : 12					Marks Obtained		

Number range	Comments
10-12	Excellent
8-9	Better
6-7	Good
5 or less than 5	Required improvement