UG 3rd Semester Examination 2020 PHYSICS Course Code: PHY-H-GE-P-01 [PRACTICAL] (Mechanics)

Full Marks : 20

Time : 2 Hours

The figure in the right-hand margin indicates marks

Ar	nswer any four questions:	(5x4 = 20)
1.	How least count is calculated? How can the radius of a solid sphere be measured	l with a
	vernier caliper?	2+3
2.	What does Young's modulus depend on? Does stress depends on Young's modul	us? Why
	Young's modulus is important?	2+1+2
3.	What is a sextant? How can the height of a building be determined by it?	1 + 4
4.	What is inertia? Describe an experimental setup to determine the moment of iner	rtia of a
	flywheel.	1 + 4
5.	How can the modulus of rigidity of a wire be determined by Maxwell's needle?	5
6.	How can you determine the elastic constant of a wire by Searle's method?	5
7.	What do you mean by a bar pendulum? How it can be used to determine 'g'?	1 + 4
8.	How you can determine 'g' (acceleration due to gravity) by Kater's pendulum?	5
9.	By studying the motion of a spring how you can calculate spring constant and 'g	?? 5