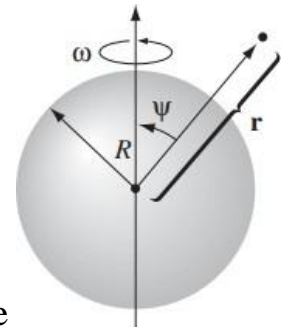
	MINISTRY OF EDUCATION, CULTURE, RESEARCH AND TECHNOLOGY UNIVERSITAS NEGERI JAKARTA FACULTY MATHEMATICS AND KNOWLEDGE KNOWLEDGE NATURAL MAJOR PHYSICS & EDUCATION PHYSICS Campus A UNJ Rawamangun, G-d. Hasjim Asj'arie Lt. 5 Jl. Rawamangun Advance No. 1 Jakarta 13220 Tel. 021-29266285/29266284	EXAM END SEMESTER 118	
		Electricity Magnets	
		Date and time	Tuesday, 13 June 2023
		O'clock	10.00 - 11.40 WIB
		Study Program	Physics & Physics Education
		Characteristic Exam	Open Note (A4)
		Lecturer	Prof. Dr. I Made Astra, M.ScDr. Umiatin, M.Sc Dr. Hadi Nasbey, M.Sc Upik Rahma Fitri, M.Pd

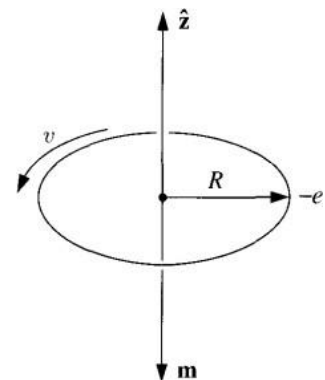
- A solid spherical conductor has charge densities ρ and radius R . The ball rotates about the z axis with speed angular ω . Determine on distance r from ball magnitude and direction his:

 - Vector potential magnet (A)
 - Medan magnet (B)



- Something atom hydrogen own electron Which orbit core the with speed v , fingers atom R , And mass electron m .

 - Make it count big moment magnetic Which owned atom the.
 - If a uniform magnetic field B is applied in the direction parallel axis z so electron will experience the change in movement speed becomes v' . Make it count big change speed Which in natural electrons.
 - Make it count big change moment magnet Which experienced electron consequence given Medan magneton z axis.
 - If Medan magnet uniform given on direction axis x , so explain change Which happen on moment magnet atom.



- Explain the meaning of magnetic hysteresis US in figures below which include every steps in point a–g. (**Explain in English!**)

