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**SECTION - B (35 Marks)**Answer **ALL** questions**ALL** questions carry **EQUAL** Marks (5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Show the theorem of parallel axis with proper diagram.	K2	CO2
	(OR)		
11.b.	Explain moment of inertia of a solid sphere with diagram.	K5	CO4
12.a.	Determine the coefficient of rigidity of a wire.		
	(OR)	K3	CO3
12.b.	Agree the theory of cantilever loaded at one end.		
13.a.	Construct the Melde's experiment with diagram.	K3	CO3
	(OR)		
13.b.	Plan the detection of ultrasonic and list out the applications of ultrasonic.	K3	CO3
14.a.	Apply the definition of dispersive power and Summarize the Achromatic prism and Chromatic aberration.		
	(OR)	K5	CO5
14.b.	Plan distinction between interference and diffraction.		
15.a.	Conclude the properties of alpha and beta rays.	K5	CO5
	(OR)		
15.b.	Estimate the Half-life period and explain energy ranges of radioisotopes.		

**SECTION -C (30 Marks)**Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

Question No.	Question	K Level	CO
16	Apply the theorem of perpendicular axis with diagram.	K3	CO3
17	Explain Cantilever supported at two ends and loaded in the middle.	K2	CO2
18	Analyze the velocity of transverse waves along a stretched string.	K4	CO3
19	Determine the achromatic combination of two thin lenses in contact.	K5	CO4
20	Explain Fundamental laws of radioactivity and indicate the activity of radioactive substances.	K2	CO2

Z-Z-Z

END