24 U	J 117	(Pages: 2)	Name	:	
			Reg. No	:	
	FIRST SEMESTER UG DEGR	REE EXAMINA	ΓΙΟΝ, NOVEM	IBER 20	24
		(FYUGP)			
	CC24U PHY1 FM10	05 - PHYSICS IN	N DAILY LIFE		
		. Physics - MDC)			
	`	dmission - Regula	ar)		
Time	: 1.5 Hours			N	Maximum : 50 Marks
	D + 4 (CI		. ,		Credit: 3
		nort answer question o			
	Answer <i>all</i> questions	-			
1.	Copper, aluminium, and even certain types o with induction hobs. Why?	of steel pots and p	pans cannot be t	used	[Level:1] [CO1]
2.	Explain how a fresh air fan can contribute to i	indoor air quality			[Level:2] [CO1]
3.	Explain how the grain structure of willow cricket bat.	wood impacts th	e performance	of a	[Level:1] [CO2]
4.	Explain pitch in cricket.				[Level:2] [CO2]
5.	Draw the ball's trajectory in spin bowling? variations leads its trajectory	Explain how pr	ressure and velo	ocity	[Level:3] [CO2]
6.	Explain how the power developed in a fast kid	ck is calculated.			[Level:2] [CO3]
7.	Explain the mechanics behind the Kick.				[Level:2] [CO3]
8.	Explain the different types of heading technic	ques in football.			[Level:2] [CO3]
9.	Determine the role of viscosity in the airflow	around a ball du	ring its flight.		[Level:3] [CO3]
10.	Explain why the amplitude of a harmonic osci	illator does not in	ofluence its perio	od.	[Level:2] [CO4]
					(Ceiling: 16 Marks)
	Part B (Parag	graph questions/Pr	roblem)		
	Answer <i>all</i> questions	. Each question c	arries 6 marks.		
11.	Execute the impact of dishwashers on kitch they are at sanitizing dishes compared to tradi			etive	[Level:3] [CO1]
12.	Examine the functions and applications of the technology. Provide specific examples of	• •			[Level:4] [CO2]

analysis and enjoyment of the game?

13. Analyse the effect of pace bowling and spin bowling in cricket. [Level:4] [CO2] 14. Analyse how the Bernoulli effect creates pressure differences around a football [Level:4] [CO3] while it is flying. 15. Describe the principle of xerography, emphasizing the role of static electricity. [Level:2] [CO4] How do the photoconductor, toner, and transfer mechanism work together to create a copy? (Ceiling: 24 Marks) Part C (Essay questions) Answer any *one* question. The question carries 10 marks. 16. Explain the working principle of a refrigerator, focusing on the refrigeration [Level:2] [CO1] cycle.Draw diagram of coils and compressor in a fridge. Finally, assess the food storage and odour removal in the fridge? 17. Compare and contrast pace bowling and spin bowling in cricket, focusing on their [Level:4] [CO2] techniques, strategies, and roles within a team. Evaluate how different pitch conditions and match situations influence the effectiveness of each bowling style?

 $(1 \times 10 = 10 \text{ Marks})$