

FIRST SEMESTER FYUGP EXAMINATION NOVEMBER 2025**(Regular/Improvement/Supplementary)****MULTI DISCIPLINARY COURSE****PHY1FM105: PHYSICS IN DAILY LIFE****Time: 1 ½ Hrs.****Maximum Marks: 50**

M – Mark

BL - Bloom's Taxonomy Level (1 to 6)

CO - Course Outcome

Section A: Answer all questions. Each carries 2 marks. Ceiling: 16 Marks				
No.	Question	M	BL	CO
1.	What causes the high-frequency noise from a tight-fitting lid on a pot?	2	1	CO1
2.	What is the principle behind the operation of a piezoelectric spark lighter?	2	2	CO1
3.	Which vessel is better to freeze food, steel or ceramic? Why?	2	4	CO1
4.	Why do some plastic containers crack in the freezer?	2	3	CO1
5.	What is meant by googly in cricket?	2	3	CO3
6.	“The faster the ball is bowled, the lesser the influence of the spin”. Why?	2	3	CO3
7.	How is the power generated while doing a hard kick?	2	2	CO4
8.	What is Bernoulli’s effect?	2	1	CO4
9.	If you increase the length of pendulum what happens to the time period? Explain.	2	3	CO5
10.	How does light enable the photocopying process?	2	2	CO6
Section B: Answer all questions. Each carries 6 marks. Ceiling: 24 Marks				
No.	Question	M	BL	CO
11.	Illustrate the topspin and backspin delivered by a spin bowler.	6	2	CO3
12.	Discuss catches and punch of a goal keeper in football.	6	2	CO4
13.	Illustrate the effect of drag on the range and height of the football.	6	2	CO4
14.	What lead to the collapse of Tacoma narrows bridge?	6	4	CO5
15.	Why is a quartz clock more energy-efficient than a traditional mechanical clock? Explain the advantages of quartz clock over pendulum clocks.	6	2	CO6
Section C: Answer any one question. Each carries 10 marks. (1 x 10 = 10 Marks)				
No.	Question	M	BL	CO
16.	Compare and contrast ionization smoke detectors and light-obstruction smoke detectors.	10	5	CO1
17.	Write an essay on: (a) The characteristics of willow wood specific to cricket bat. (b) The sweet spot of cricket bat.	10	2	CO3