

University of Information Technology & Sciences
B.Sc. Engineering Program
Autumn-2025 , CSE, 1st Semester
Class Test-1

Course Title: Engineering Physics
Course Code: (PHY -0533111)

Total marks: 10
Time: 1 Hour

Answer Odd ID Ques No-1 and even ID Ques No-2

1. (a) What is meant by SHM? Write its characteristics. 5
- (b) Derive an expression for total energy of SHO. 5
2. (a) What do you mean by Lissajous' Figure ? Write the condition to form Lissajous' Figure. 5
- (b) Draw the Lissajous' Figure for $\delta = \frac{\pi}{2}, \pi, \frac{\pi}{4}, 2\pi$ and $\frac{\pi}{2}$ & $a=b$ 5