

PHYS 121 Integrated Science-Physics

Midterm Exam Paper

Instructor: Changcheng Zheng

Instructions:

1. Duration: 90 min. Total pages: 6.
2. A calculator (with power/logarithm function/trigonometry) is *needed* for this exam.
3. You can bring 1 piece of A4 paper prepared by yourself, but no other in-print or online/electronic resource.
4. *Total marks available: 50; Number of questions: 3.*
5. Possible useful physical constants and formulas:

$$g=9.80 \text{ m/s}^2$$

Simple integration skills involve polynomial/exponential/trigonometric functions (i.e., x^2 , e^x , $\sin(x)$) may be needed.

Student Name: _____.

NetID: _____.

By signing here, I will abide the 'DUKE KUNSHAN UNIVERSITY ACADEMIC INTEGRITY POLICY' while doing this assessment.

Student signature: _____.