

Name (print, last first): _____ Signature: _____

On my honor, I have neither given nor received unauthorized aid on this examination.

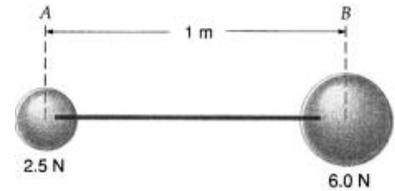
YOUR TEST NUMBER IS THE 5-DIGIT NUMBER AT THE TOP OF EACH PAGE.

DIRECTIONS

- (1) **Code your test number on your answer sheet (use 76–80 for the 5-digit number).** Code your name on your answer sheet. **DARKEN CIRCLES COMPLETELY.** Code your student number on your answer sheet.
- (2) Print your name on this sheet and sign it also.
- (3) Do all scratch work anywhere on this exam that you like. At the end of the test, this exam printout is to be turned in. No credit will be given without both answer sheet and printout with scratch work most questions demand.
- (4) **Blacken the circle of your intended answer completely, using a #2 pencil or blue or black ink.** Do not make any stray marks or the answer sheet may not read properly.
- (5) The answers are rounded off. Choose the closest to exact. There is no penalty for guessing.

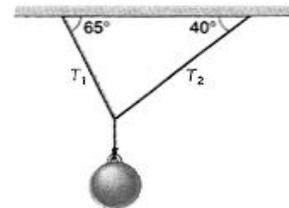
>>>>>>>**WHEN YOU FINISH**<<<<<<<<
Hand in the answer sheet separately.

1. In the figure, how far from point A must you place a pivot in order to balance this device? Assume the connecting rod has negligible weight.



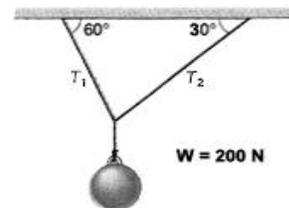
- (1) 0.71
- (2) 0.43
- (3) 0.15
- (4) 0.28
- (5) 0.50

2. In the figure, if T_1 is 35 N, find the weight (in N) of the suspended object.



- (1) 44
- (2) 31
- (3) 14
- (4) 23
- (5) 26

3. Find the tension T_1 (in N) shown in the figure.



- (1) 173
- (2) 152
- (3) 100
- (4) 189
- (5) 121

