

Write your name here \_\_\_\_\_

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Own materials needed: scientific calculator  
Standard formula sheet

All needed data are provided in the questions.  
Use acceleration due to gravity  $9.80 \text{ m/s}^2$



**Section A** contains 10 multiple-choice problems worth 2 points each

**Section B** contains 10 conceptual multiple-choice questions each worth 1 point

**Section C** contains 2 extended response (show working) problem worth 4 points each

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Circle the letter of your answers for sections A and B.  
(You may use the question sheet as scratch paper, no credit is given for working)

Write your answers to section C in the space after the questions.  
(Partial credit is given for the working)