

# SPH3U Final Exam Solutions

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## Section 1: Knowledge [20 marks]

### Multiple Choice Questions [15 marks]

1. 1. Mechanical waves

Correct Answer: (a) require a medium in which to travel

Explanation: Mechanical waves, such as sound waves, require a medium (like air, water, or solid materials) to propagate. They cannot travel through a vacuum.

2. 2. Specific latent heat of fusion of gold

Correct Answer: (b) 65.0 kJ/kg

Calculation:  $Q = mL \rightarrow L = Q/m = 3250 \text{ J} / 0.050 \text{ kg} = 65 \text{ kJ/kg}$

3. 3. Newton's third law of motion

Correct Answer: (a) velocity, net force

Explanation: Newton's third law states that an object will remain at rest or move at a constant velocity unless acted upon by an external net force.

4. 4. Work done by a force in the direction of motion

Correct Answer: (c) positive

Explanation: When the force acts in the direction of motion, the work done is positive.

5. 5. Conditions for work to be done

Correct Answer: (d) all of the above

Explanation: For work to be done, a force must act on an object, the object must change position, and there must be a component of the force parallel to the direction of the motion.

6. 6. Displacement of a hyena

Correct Answer: (b) 55 m

Calculation:  $a = (v_f - v_i) / t = (-4 \text{ m/s} - 18 \text{ m/s}) / 5 \text{ s} = -2.8 \text{ m/s}^2 \rightarrow \Delta x = v_i t + 1/2 a t^2 = 18 \text{ m/s} * 5 \text{ s} + 1/2 (-2.8 \text{ m/s}^2) * (5 \text{ s})^2 = 90 \text{ m} - 35 \text{ m} = 55 \text{ m}$

7. 7. Uniform motion

# Sph3u Nelson Solutions Manual

**Jose Mestre, Shelley Velleman, William  
Gerace, William Mullin**



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Manual (Available Through Sales Support Only) Jose Mestre,Shelley Velleman,William Gerace,William Mullin,2002-03  
*Digital and Analog Communication Systems, Sixth Edition* Leon W. Couch,2000-06      **Solutions Manual** Naveed  
Malik,1983      *Introductory System Engineering* John G. Truxal,1972      **Solutions Manual** John P. Hayes,1998-01-01  
Compartmental System Analysis: Solution Manual Reginald F. Brown,1985

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