

GRADE 11 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7. D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A X has a greater mass.
 - B The bodies have equal mass.
 - C Y has a greater mass.
 - D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
- A An object moving with constant acceleration.
 - B When the only force acting on the object is gravitational acceleration.
 - C An object that undergoes equal displacements every second.
 - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moving at constant velocity upwards from the ground.
 - B An object moving at constant velocity downwards from the ground.
 - C An object that is accelerated upwards away from the ground by a constant applied force.
 - D An object accelerates downwards towards the Earth with an acceleration of $9.8\text{m}\cdot\text{s}^{-2}$.
- 1.4 The inertia of an object ...
- A is greater if its mass is smaller.
 - B increases as the applied force on the object increases.
 - C is the resistance to any change in its state of motion.
 - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of

Physical Science March 2question Paper

Rachel S Tattersall



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$\frac{1}{3}$ $\frac{2}{1}$ $\frac{1}{3}$ minimum work input to a multistage compressor for 2 stage $\frac{2}{3}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{1}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{1}$ or $\frac{2}{3}$ $\frac{1}{2}$

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web problems and solutions for cycle centrifugal axial compressors for all the exercises assume $R = 287 \text{ J/kg K}$ and $\gamma = 1.4$ for air
determine the pressure ratio developed and the specific work input to drive a centrifugal air compressor having an impeller diameter of 0.5 m and running at 7000 rpm assume zero whirl at the

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web 1 a single stage double acting air compressor of 150 kW power takes air in at 16 bar delivers at 6 bar the compression follows the law $pV^{1.35} = \text{const}$ the compressor runs at 160 rpm with average piston speed of 150 m/min determine the size of the cylinder given data power $P = 150 \text{ kW}$ piston speed $2 \ln 150 \text{ m/min}$

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web compressor capacity is volume of compressed air flow upon a particular given time and is expressed in m^3/hour or l/min
various compressor types vary in capacity to specify particular application of compressor equipment amount of inlet air consumed upon a particular given time prior to compression is also considered a unit capacity

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web numerical simulation of a centrifugal compressor ijera journal in this paper the tip clearance effects on flow field of a low speed centrifugal compressor without and with partial shroud ps fitted on to the rotor blade tip at three values of tip clearance viz 2.25 and 7.9 of rotor blade height at the exit at three flow