



## GRADE 11 PHYSICAL SCIENCES

### NOVEMBER EXAMINATION PAPER 1: PHYSICS

#### SECTION A

##### 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 in your answer book.

- 1.1 An example of a vector quantity:
- velocity
  - displacement
  - speed
  - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
  - applied force
  - gravity
  - normal force
- 1.3 Two forces  $F_1$  and  $F_2$  have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of  $F_1$  and  $F_2$  will be:
- 70N and 30N
  - 120N and 20N
  - 60N and 40N
  - 80N and 40N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
  - 7V
  - 20
  - 30
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
- 100
  - 4/50
  - 50
  - 60
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
  - frictional force is more than 200N
  - frictional force is less than 200N
  - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **B**?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

# Physical Science Paper 1 Grade11 Scope November Examnation

**Tao Wei**



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**Record** New York (N.Y.),1906 Includes Official canvas of votes varies slightly 1878 1943     The Electrical Journal ,1906  
**Resources in Education** ,1985     *The Electrician* ,1906     **Army and Navy Register** ,1917     *The United States*  
*Army and Navy Journal and Gazette of the Regular and Volunteer Forces* ,1905     **Bulletin of the Atomic Scientists**  
,1979-03     Chemist and Druggist ,1923-07     *City Record* Boston (Mass.),1928     Nuclear Science Abstracts ,1961  
**Progressive Medicine** ,1910     **School** ,1923     Building ,1900     *Chemist and Druggist* ,1923     **New York**  
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web 1 ton 12 000 btu hr fig 1 illustrates some of these definitions using water as the medium experiencing a heat transfer process this graph plots the water temperature vs the enthalpy of the water heat content in btu lb we all know that water boils at 212 of atmospheric pressure at sea level

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web for r12 saturation pressure at 120 f is 172 35 psia for r134a saturation pressure at 120 f is 186 023 psia if a lower

operating pressure is the only desired criterion for the design clearly r12 is a better choice c arizona s summer the design specification given thus far is the temperature of the condenser see diagram which is 120 f

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web 8 2 1 1 hexagonal nut the upper corners of this nut are rounded off or chamfered the chamfering is generally conical the  
angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is  
formed on the top surface of the nut

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web a hex key also hex wrench allen key and allen wrench or inbus is a simple driver for bolts or screws that have heads with  
internal hexagonal recesses hex keys are formed from a single piece of hard hexagonal steel rod having blunt ends that fit  
snugly into similarly shaped screw sockets the rods are bent to 90° forming two arms of unequal

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web head designs that overlap both bolts and screws are the allen or torx heads hexagonal or splined sockets these modern  
designs span a large range of sizes and can carry a considerable torque rusty hexagonal bolt heads the american institute of  
steel construction 13th edition steel design manual section 16 1 chapter j 3 specifies the

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web the formula used to calculate the bolt area is as follows bolt area  $ba = 0.7854 d^2 n$  in this formula  $d$  represents the  
bolt diameter in inches and  $n$  represents the number of threads per inch the bolt area is calculated by subtracting 0.9734  
divided by the threads per inch from the bolt diameter and then squaring the

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web jun 3 2020 calculation and drawing of hexagon bolt when drawing the bolt connection first calculate the nominal length  $l$  of the bolt the length of bolt  $l = k + m + g_1 + g_2 + b_1$  after calculating the length check the national standard and take the standard length  $l$  according to the bolt length series

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web mar 30 2023 standard conventional proportions may be considered while drawing a hexagonal nut width of the nut across the flat surface known as size across flat  $1.5d$  3 mm the diameter of the nut  $d$  in mm the thickness of the nut  $0.8d$  to

d the radius of front chamfer 1 5 d the angle of chamfer 30

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