



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL
SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

NOVEMBER 2018

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FULL MEMORANDUM
GRADE 11 PHYSICS
FINAL EXAM

Physical Sciences/P1

Grade 11

November 2018

QUESTION 1: MULTIPLE-CHOICE QUESTIONS

Various options are provided as possible answers to the following questions. Indicate the correct option by writing (A), (B), (C) or (D) in the answer space, e.g. 1.1 (A).

1.1. The velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.2. The acceleration of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.3. The displacement of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.4. The distance of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.5. The speed of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.6. The time of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.7. The mass of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.8. The weight of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.9. The force of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.10. The energy of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.11. The power of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.12. The momentum of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.13. The impulse of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

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Northwest Grade 11 Physics Memorandum

Puja Mehta



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 $\text{Pb} + 2\text{HCl} \rightarrow \text{PbCl}_2 + \text{H}_2$
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 $3\text{HBr} + \text{KHCO}_3 \rightarrow \text{H}_2\text{O} + \text{KBr} + \text{CO}_2$
 $\text{GaBr} + \text{NaBr} \rightarrow \text{SnO}_4 + \text{Na}_2\text{SO}_3 + \text{Ga}_2\text{S}_3 + \text{NF}_3$
 $\text{SnF}_2 + \text{N}_2\text{O}_3$ using the equation from problem 2 above answer the following

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 $3\text{HBr} + \text{KHCO}_3 \rightarrow \text{H}_2\text{O} + \text{KBr} + \text{CO}_2$
 $2\text{GaBr}_3 + 3\text{Na}_2\text{SO}_3 \rightarrow \text{Ga}_2\text{S}_3 + 3\text{SO}_3 + 6\text{NaBr} + 3\text{SnO}_2 + \text{NF}_3 + 3\text{SnF}_2 + \text{N}_2\text{O}_3$ using the

following equation $2 \text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow 2 \text{H}_2\text{O} + \text{Na}_2\text{SO}_4$

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br 2 $2 \text{C}_6\text{H}_{10} + 17 \text{O}_2 \rightarrow 12 \text{CO}_2 + 10 \text{H}_2\text{O}$
br 3 $\text{HBr} + \text{KHCO}_3 \rightarrow \text{H}_2\text{O} + \text{KBr} + \text{CO}_2$
br 4 $2 \text{GaBr}_3 + 3 \text{Na}_2\text{SO}_3 \rightarrow \text{Ga}_2\text{SO}_3 + 3 \text{NaBr}$
br 5 $3 \text{SnO}_2 + \text{NF}_3 \rightarrow 3 \text{SnF}_2 + \text{N}_2\text{O}_3$
br using the following equation
br $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow 2 \text{H}_2\text{O} + \text{Na}_2\text{SO}_4$
br

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3 $\text{HBr} + \text{KHCO}_3 \rightarrow \text{H}_2\text{O} + \text{KBr} + \text{CO}_2$
4 $2 \text{GaBr}_3 + 3 \text{Na}_2\text{SO}_3 \rightarrow \text{Ga}_2\text{SO}_3 + 3 \text{NaBr}$
5 $3 \text{SnO}_2 + \text{NF}_3 \rightarrow 3 \text{SnF}_2 + \text{N}_2\text{O}_3$

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answer $\text{Ce} + \text{SiO}_2 \rightarrow 3 \text{C} + \text{SiC} + 2 \text{CO}$

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 $\text{HBr} + \text{KHCO}_3 \rightarrow \text{H}_2\text{O} + \text{KBr} + \text{CO}_2$
4 $2 \text{GaBr}_3 + 3 \text{Na}_2\text{SO}_3 \rightarrow \text{Ga}_2\text{SO}_3 + 3 \text{NaBr}$
5 $3 \text{SnO}_2 + \text{NF}_3 \rightarrow 3 \text{SnF}_2 + \text{N}_2\text{O}_3$
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