



basic education

Department  
Basic Education  
REPUBLIC OF SOUTH AFRICA

NATIONAL  
SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

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**FULL MEMORANDUM**  
**GRADE 11 PHYSICS**  
**FINAL EXAM**

Physics (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 unit of force is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.2. The unit of work is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.3. The unit of power is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.4. The unit of energy is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.5. The unit of momentum is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.6. The unit of impulse is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.7. The unit of pressure is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.8. The unit of stress is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.9. The unit of strain is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.10. The unit of Young's modulus is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.11. The unit of bulk modulus is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.12. The unit of shear modulus is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.13. The unit of Poisson's ratio is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.14. The unit of thermal conductivity is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.15. The unit of thermal expansion coefficient is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.16. The unit of thermal conductivity is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.17. The unit of thermal expansion coefficient is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.18. The unit of thermal expansion coefficient is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.19. The unit of thermal expansion coefficient is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

1.20. The unit of thermal expansion coefficient is

- (A)  $\text{kg m s}^{-2}$  (B)  $\text{kg m s}^{-1}$   
(C)  $\text{kg m s}^{-2}$  (D)  $\text{kg m s}^{-1}$

# Northwest Grade 11 Physics Memorandum

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A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the U.S. Nuclear Regulatory Commission text.

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