

GRADE 8 NATURAL SCIENCES NOVEMBER EXAMINATION

SECTION A QUESTION 1

- 1.1 Various options are provided as answers to the following questions. Choose the correct answer and write ONLY the LETTER(A-D) next to the QUESTION NUMBER (1.1.1-1.1.8) on your answer sheet, for example 1.1.9 A.
- 1.1.1 The resistant wire found inside a lightbulb which produces light is called the:
 - A Conducting wire
 - B Filament
 - C Tungsten

- D Isolating wire
- 1.1.2 Colour with the THIRD longest wavelength:
 - A Red
 - B Green
 - C Yellow
 - D Indigo
- 1.1.3 The SEVENTH planet from the sun:
 - A Saturn
 - B Neptune
 - C Pluto
 - D Uranus
- 1.1.4 Which of the following is NOT a necessary condition to sustain life?
 - A Water
 - B Air
 - C Temperature
 - D Sunlight
- 1.1.5 Which of the following statements are FALSE:
 - A Earth is 13 light minutes away from the sun.
 - B The sun orbits the centre of the Milky Way.
 - C Earth is located in one of the spiral arms of the Milky Way.
 - D The middle of the Milky Way forms a bulge.

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Claudio Carini, Mark Fidock, Alain van Gool

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Handbook of Biomarkers and Precision Medicine Claudio Carini, Mark Fidock, Alain van Gool, 2019-04-16 The field of Biomarkers and Precision Medicine in drug development is rapidly evolving and this book presents a snapshot of exciting new approaches By presenting a wide range of biomarker applications discussed by knowledgeable and experienced scientists readers will develop an appreciation of the scope and breadth of biomarker knowledge and find examples that will help them in their own work Maria Freire Foundation for the National Institutes of Health Handbook of Biomarkers and Precision Medicine provides comprehensive insights into biomarker discovery and development which has driven the new era of Precision Medicine A wide variety of renowned experts from government academia teaching hospitals biotechnology and pharmaceutical companies share best practices examples and exciting new developments The handbook aims to provide in depth knowledge to research scientists students and decision makers engaged in Biomarker and Precision Medicine centric drug development Features Detailed insights into biomarker discovery validation and diagnostic development with implementation strategies Lessons learned from successful Precision Medicine case studies A variety of exciting and emerging biomarker technologies The next frontiers and future challenges of biomarkers in Precision Medicine Claudio Carini Mark Fidock and Alain van Gool are internationally recognized as scientific leaders in Biomarkers and Precision Medicine They have worked for decades in academia and pharmaceutical industry in EU USA and Asia Currently Dr Carini is Honorary Faculty at Kings s College School of Medicine London UK Dr Fidock is Vice President of Precision Medicine Laboratories at AstraZeneca Cambridge UK Prof dr van Gool is Head Translational Metabolic Laboratory at Radboud university medical school Nijmegen NL

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