



**LIFE SCIENCES - Grade 10**

**TOPIC TEST: History of Life on Earth**

**MARKS: 30**

**TIME: 30 minutes**

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**SECTION A**

**QUESTION 1**

Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A to D) next to the question number (1.1 to 1.6) in the ANSWER BOX. For example 1.6 D.

1.1 Palaeontology is a study of

- A: the hardness of radioactive substances
- B: continental drift
- C: fossils
- D: changes during the Cambrian explosion

1.2 Which method allows scientists to say that one fossil is older than the other?

- A: Fossilization
- B: Relative dating
- C: Petrification
- D: Radiometric dating

1.3 A period in the earth's history where global temperatures plummeted and there is extensive glaciation is known as

- A: the greenhouse effect
- B: a cold spell
- C: a hole in the ozone
- D: an ice age

1.4 \_\_\_\_\_ are the richest sources of fossils

- A: Layers of strata
- B: Index fossils
- C: Mineral salts
- D: Sedimentary rocks

# 19 2014 Life Science Controlled Paper

**Aziz, Hamidi Abdul,Amr, Salem Abu**

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**Scientific Information Notes** ,1959

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web the standard form of a quadratic equation is  $ax^2 + bx + c = 0$  where  $a, b$  and  $c$  are real numbers and  $a \neq 0$  the term  $b^2 - 4ac$  is known as the discriminant of a quadratic equation it tells the nature of the roots if the discriminant is greater than 0 the roots are real and different if the discriminant is equal to 0 the roots are real and equal if the

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web the quadratic formula in terms of the discriminant is  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  example find the discriminant of the quadratic equation  $2x^2 - 3x - 8 = 0$  comparing the equation with  $ax^2 + bx + c = 0$  we get  $a = 2, b = -3, c = -8$  so the discriminant is  $\Delta = b^2 - 4ac = 9 - 4 \cdot 2 \cdot (-8) = 64$  discriminant of cubic equation

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web find the value of the discriminant of each quadratic equation 1 6 p2 2p 3 0 76 2 2x2 x 1 0 7 3 4m2 4m 5 0 96 4 5b2 b 2 0 41 5 r2 5r 2 0 17 6 2p2 5p 4 0 57 find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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web mar 1 2022 the quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  if the discriminant is positive this means we are taking the square root of a positive number we will have a positive and negative real solution this equation will have

two real solutions or x x x intercepts