



Date: SEPTEMBER 2024

Time: 2 ½ HOURS

Mark: 150

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

1. Answer ALL questions.
2. Write ALL the answers on the provided FOLIO PAPER.
3. **ROUND OFF** after each question.
4. Start each section on a **NEW** page.
5. Number the answers correctly according to the numbering system used in this question paper.
6. Present your answers according to the instructions for each question.
7. Do ALL drawings in pencil and label them in blue pen.
8. Draw diagrams or flow charts only when asked to do so.
9. The diagrams in this question paper are **NOT** all drawn to scale.
10. You may use a non-programmable calculator, protractor, and compass.
11. You may **NOT** use graph paper.
12. Write neatly and legibly.

EXAM AGREEMENT

I, _____ (Name & Surname), Grade _____

hereby acknowledge that I will abide by all examination rules stipulated below during the writing of my **LIFE SCIENCE** exam.**RULES:**

1. I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
2. I will not cause any disruption during this exam in the exam venue.
3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature**SECTION A****Question 1**

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) on the FOLIO PAPER, for example 1.1.6 E.

1.1.1 Hollow, pear-shaped organ.

- A. Vagina
- B. Uterus
- C. Fallopian tubes
- D. Placenta

1.1.2 Choose the letter that does not explain the process of oogenesis.

- A. The diploid germinal epithelium cells of the ovaries go through the process of mitosis to form many follicles.
- B. Every 21 days, the follicle stimulating hormone (FSH) stimulates one follicle. Only one cell inside of that follicle enlarges and goes through the process of meiosis.
- C. Out of the 4 haploid cells produced through meiosis, only one cell will survive to form a mature ovum.
- D. The other three cells from meiosis will degenerate.

1.1.3 Before copulation the male sperm is stored temporarily in the...

- A. seminal vesicles
- B. scrotum
- C. prostate gland
- D. epididymis

1.1.4 Structure that receives a stimulus and converts it into an impulse

- A. autonomic nervous system
- B. effector
- C. stimulus
- D. receptor

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web in 1932 h s vandiver 6324 6325 gave a short proof of kummer s theorem about fermat s last theorem in the case of regular prime exponents and in the following year m moriya gave a simple proof of e maillet s result on the insolvability of fermat s equation

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web jun 22 2023 fermat s last theorem is similar to the pythagorean theorem which states that the sides of any right triangle give a solution to the equation $x^2 + y^2 = z^2$ the pythagorean theorem named

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web mathematical preliminaries fermat s last theorem states that no three positive integers a , b , c can satisfy the equation $a^n + b^n = c^n$ for any integer value of n greater than two for n equal to 1 the equation is a linear equation and has a solution for every possible a , b

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web fermat s last theorem also called fermat s great theorem the statement that there are no natural numbers $1 < 3 < x$, y and z such that $x^n + y^n = z^n$ in which n is a natural number greater than 2

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web jun 23 2022 according to fermat s last theorem no three positive integers a , b , c satisfy the equation for any integer value of n greater than 2 for $n = 1$ and $n = 2$ the equation have infinitely many solutions some solutions for $n = 1$ are 2, 3, 5, 7, 13, 20, 5, 6, 11, 10, 9, 19 some solutions for $n = 2$ are c , a , b

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web fermat s last theorem states that if n is any natural number greater than 2 the equation $a^n + b^n = c^n$ has no solutions in integers all different from 0 starting with

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web fermat s last theorem is a theorem first proposed by fermat in the form of a note scribbled in the margin of his copy of the ancient greek text arithmetica by diophantus the scribbled note was discovered posthumously and the original is now lost

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web fermat s little theorem is the basis for the fermat primality test and is one of the fundamental results of elementary number theory the theorem is named after pierre de fermat who stated it in 1640 it is called the little theorem to distinguish it from fermat s last theorem 3 history pierre de fermat

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web fermat s last theorem is a theorem which pierre de fermat wrote down in the margins of a book he had back in the 1600s it is called his last theorem because this writing was discovered some 30

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web fermat s last theorem states that $x^n + y^n = z^n$ has no non zero integer solutions for x, y, z when $n \geq 2$ fermat wrote i have discovered a truly remarkable proof which this margin is too small to contain fermat almost certainly wrote the marginal note around 1630 when he first studied diophantus s arithmetica

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web 26 1 fermat s last theorem in 1637 pierre de fermat famously wrote in the margin of a copy of diophantus arithmetica that the equation $x^n + y^n = z^n$ has no integer solutions with $xyz \neq 0$ and $n \geq 2$ and claimed to have a remarkable proof of this fact