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**QUESTION 1**

As used in line 26, the word "pharmaceutical" most likely means:

1 Modern chemistry can seem like a 30 bark to relieve aches and pains, a practice
2 strange domain: mysterious chemicals are 31 which continues today. Over time, simple
3 manipulated and produced in massive, 32 herbal remedies were processed in many ways
4 expensive laboratories. Sometimes we even 33 to create more potent medicines: extracts,
5 use the word "chemical" as though it means 34 tinctures, distillates.
6 something artificial and dangerous — "Be sure 35 By the 17th century, people gained a
7 to wash your apples thoroughly, to get the 36 better understanding of chemical properties,
8 chemicals off!" It's true that there might be 37 and began to isolate chemical compounds. In
9 some dangerous chemical pesticides on apples, 38 the early 19th century, efforts to isolate the
10 but it turns out that apples themselves are also 39 active compounds in willow bark yielded
11 made of chemicals! Everything around us is 40 salicylic acid, the chemical that was
12 made of chemicals, some natural and some 41 responsible for the bark's pain-relieving
13 synthetic. The practice of chemistry has a long 42 effects. Unfortunately, salicylic acid in its raw
14 history, beginning with the observations of 43 form was hard on the stomach, and for that
15 simple chemical interactions with the natural 44 reason wasn't a practical medicine. But with
16 world. 45 the active compound discovered, and with
17 In the ancient world, as far back as the 46 advancing knowledge of chemistry, another
18 historical record extends, people made use of 47 step could be taken: salicylic acid was
19 medicinal plants. This is not quite the practice 48 eventually combined with other chemicals to
20 of chemistry as we know it today: ancient 49 create a new synthetic chemical, acetylsalicylic
21 peoples did not know why the plants they used 50 acid, which retained its pain-relieving effects
22 worked as they did to treat pain, fever, or 51 while being easier on the stomach. This
23 other maladies. But through a process of trial 52 became the drug which we now know as
24 and error, they discovered many medicinal 53 aspirin. Aspirin, like many other modern
25 properties that would lay the groundwork for 54 drugs, is produced in the laboratories of
26 pharmaceutical chemistry. We can examine the 55 modern chemists using modern techniques,
27 case of willow bark, a raw plant substance that 56 but its origins can be traced back to ancient
28 has the useful property of relieving pain. At 57 herbal remedies.
29 first, people mostly chewed raw pieces of the

A. menacing

B. ingenious

C. medicinal

D. ancient

Correct Answer: C



QUESTION 2

All of the following are true about Miller and Urey EXCEPT:

1 How could life possibly have gotten 27 network of glass flasks and tubes with water, to
2 started on Earth? How could so many and such 28 simulate the early ocean, and with the same
3 a stunning number and variety of organisms 29 gases believed to be present in the early
4 have come into existence? Few questions have 30 atmosphere. They applied heat, causing some
5 puzzled so many, for so long. Philosophers, 31 of the water to evaporate and begin to circulate
6 authors, and scientists have pondered, 32 through the tubes as vapor. They then created
7 discussed, and explored the issue for decades, 33 electrical sparks inside the apparatus to
8 and numerous hypotheses have been proposed 34 simulate lightning. As the experiment
9 over time: maybe the first organic molecules 35 proceeded, the mixture began to change color.
10 were formed in the deep ocean, from chemicals 36 After a few days, when the contents were
11 spewed out by volcanic vents. Maybe the 37 analyzed, the scientists found what they were
12 earliest life was actually made of simple 38 looking for: the very same organic compounds
13 molecules, and these simple organisms created 39 that are the building blocks of all life on Earth.
14 the molecules used by complex living 40 While the Miller-Urey experiment did not
15 organisms today. Maybe life came to Earth 41 finally answer the question of life's origins, it
16 from outer space. But in 1952, in a laboratory 42 provided support for the hypothesis that
17 in Chicago, one hypothesis was about to be put 43 conditions on the early Earth could generate
18 to the test. 44 the necessary components of life, and showed
19 For decades, Alexander Oparin and J.B.S. 45 that natural chemical processes could well
20 Haldane had proposed that conditions on the 46 have been all that was required to strike the
21 early Earth favored chemical reactions that 47 spark of life. One of the most meaningful steps
22 could produce organic compounds – the 48 in the quest for an answer to the question of
23 building blocks of life – from inorganic 49 life, the Miller-Urey experiment, over the
24 precursors. At the University of Chicago, 50 course of a few days, revolutionized a
25 Stanley Miller and Harold Urey had devised an 51 conversation which has been taking place for
26 experiment to test the idea. The team filled a 52 thousands of years.

- A. their experiment was based on the ideas of Oparin and Haldane.
- B. they attempted to simulate the conditions of early earth.
- C. they used sparks to simulate lightning.
- D. they used some organic compounds to start the experiment.

Correct Answer: D

QUESTION 3



Select the word that is most nearly the same in meaning as the word in capital letters. CASTIGATE

- A. berate
- B. muddle
- C. remove
- D. perfume

Correct Answer: A

QUESTION 4

The theory described in lines 24-29 proposed that: A. the effects of the sun's gravity are different in the outer solar system.

1 An early 19th century understanding of 25 to be the case took the position that some as-
2 the laws of gravitation predicted certain orbits 26 yet-undiscovered object in the outer solar
3 for each of the planets, and as a general rule the 27 system was perturbing the orbit of Uranus, and
4 seven planets known at that time politely 28 that the discovery of that object would explain
5 observed these orbits. Yet there was an 29 the eccentric orbit of Uranus.
6 exception: Uranus, at the far outer reaches of 30 If this theory was correct, it meant that
7 the solar system, refused to behave as 31 there was a large orbiting body waiting to be
8 predicted. The irregularity of Uranus's orbit 32 discovered in the outer solar system, and at
9 posed a problem for scientists: the data did not 33 least two scientists – John Adams Couch and
10 match their models for how the planets should 34 Urbain Jean-Jospeh Le Verrier – worked
11 behave. 35 separately to calculate the position of such a
12 Some believed the model must be 36 body. By 1846, they had calculated the mass,
13 modified, speculating that the effect of the 37 orbit, and position of what would soon be
14 sun's gravity simply changed at such extreme 38 recognized as the newest planet, using only
15 distances. Others were convinced that the data 39 theories of gravitation and observations of the
16 was flawed; they believed it was more likely 40 orbit of Uranus. With the calculations done,
17 that astronomers had botched their 41 astronomers pointed their telescopes to the
18 observations than that current models of 42 location in the night sky where Couch and Le
19 gravitation and planetary orbits – which so 43 Verrier had predicted the planet could be
20 elegantly predicted the motions of other 44 found, and in a dramatic confirmation of their
21 orbiting bodies – were wrong. Still, it was 45 work, Neptune could be observed directly in its
22 possible that the model was correct and the 46 distant orbit at the outer edge of our solar
23 observations had been accurate, but that the 47 system.
24 data was incomplete. Those who believed this

- B. some other object was altering the orbit of Uranus.
- C. observations of the orbit of Uranus must be wrong.

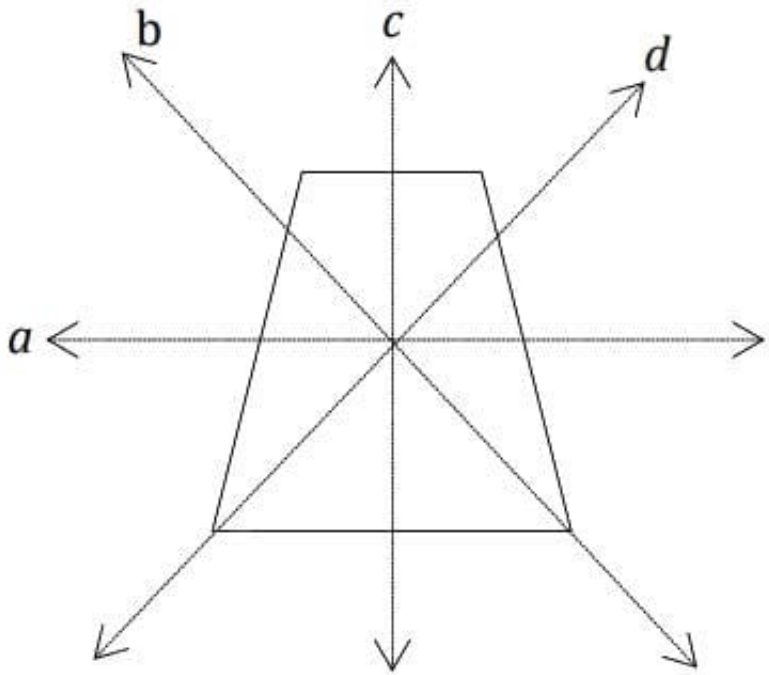


D. the seven known planets had predictable orbits.

Correct Answer: B

QUESTION 5

The trapezoid shown below may be folded along the dotted lines.



Which line, when folded, will cause the sides of the trapezoid to overlap exactly?

- A. line a
- B. line b
- C. line c
- D. line d

Correct Answer: C

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