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09 기술과 미디어 · 교재 p.216

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2026년 10월 시행 · 전국연합학력평가

Social media has ① altered business, politics, and friendships, making going viral a household term. The global financial industry links every bank and countless households in every country, making us ② vulnerable to human error taking place on the other side of the world. As Columbia University strategy professor Rita McGrath explains, years ago most of our institutions were separate and thereby ③ buffered from the effects of errors outside their walls. That is no longer the case. The digitization of massive amounts of information has continued to grow enormously as the cost of computing power has ④ decreased. The development of smart systems that communicate autonomously gave rise to an infinite variety of potential breakdowns. This interdependence is a breeding ground for complex failure. As Rita puts it, when "things that used to be kept separate bump up against each other, it becomes far more difficult to predict what's going to happen next." Information technology creates new vulnerabilities because interconnectedness ⑤ slowly spreads the impact of small failures.

1. 어휘 윗글의 밑줄 친 부분 중, 문맥상 낱말의 쓰임이 적절하지 않은 것은?

① ② ③ ④ ⑤

2. 제목 윗글의 제목으로 가장 적절한 것은?

① Separate Systems Fail More Often
② Connected and Vulnerable: How Interdependence Breeds Failure
③ Computing Costs Keep Rising
④ Small Failures Stay Small
⑤ Social Media Ends Global Risk

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2026년 9월 시행 · 전국연합학력평가

When we focus on the obvious aspects of media, we miss the changes that ① accumulate over time but are not apparent day to day. Most of us notice the obvious aspects of a new medium or technology while missing the more subtle aspects. Take, for example, the microwave oven. It was ② introduced in the early 1980s and revolutionized food preparation. Traditionally, one person spent the better part of an afternoon fixing an evening meal for a family. Now, it was possible to prepare foods very quickly, and this shortening of preparation time was ③ liberated for the cooks in the family, most of whom tended to be women. But the short-term, obvious implications of greater convenience made it easy to overlook the long-term implications of no longer ④ having one person fix food for the family to eat together at an evening meal. As time went on, fewer and fewer families sat down together to eat dinner. Meals that took a long time to prepare became a luxury of the past, except perhaps for special occasions. The effects of the microwave oven on family life were not ⑤ anticipated and would have been difficult to foresee.

1. 어법 윗글의 밑줄 친 부분 중, 어법상 틀린 것은?

① ② ③ ④ ⑤

2. 요지 윗글의 요지로 가장 적절한 것은?

① 전자레인지는 가족 식사를 늘렸다.
② 기술의 장기적 영향은 쉽게 예측된다.
③ 요리 시간의 단축은 아무 영향이 없었다.
④ 새로운 기술의 눈에 띄는 편리함에 가려, 오랜 시간에 걸친 미묘한 변화는 간과되기 쉽다.
⑤ 새로운 매체는 눈에 띄는 변화만 가져온다.

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Digital twins are digital replicas of assets or activities using modeling and sensors to create digital representations. Digital twins are not new; engineering teams in various industries have used 3D renderings of computer-aided design models, asset models, and process simulations for years. However, faster wireless networks and the resulting availability of real-time data enable much more detailed and dynamic digital representations. When sensors collect data from a connected device, the sensor data can be used to continuously update the digital twin. The digital twin becomes _____ of a physical object's properties and states. For instance, digital twins of physical assets such as power-generation turbines, jet engines, and train engines are becoming common when the assets are very valuable and when downtime would be very costly.

1. 빈칸 추론 윗글의 빈칸에 들어갈 말로 가장 적절한 것은?

① a real-time accurate copy
② a rough sketch
③ an outdated record
④ a simple drawing
⑤ a random guess

2. 주제 윗글의 주제로 가장 적절한 것은?

① why 3D design is no longer used
② how to build jet engines
③ digital twins as real-time replicas of physical assets
④ the dangers of wireless networks
⑤ why sensors are too expensive

2025년 9월 고2 학평 23번

2025년 9월 시행 · 전국연합학력평가

It’s conceivable that in a world where solar panels are incredibly expensive and there’s an extreme collapse in the cost of launching objects to space, you might want to maximize your energy per panel by putting them above the atmosphere. ① But panels are cheap, and even if we assume pretty steep drops in the cost of space launch, the numbers don’t add up. ② This becomes especially clear when you start to think about maintenance. ③ Try to imagine acres upon acres of glass panels in space, regularly hit by intense radiation and bits of space debris while enduring the extreme heat of constant sunlight. ④ They’ll have to be repaired and cared for either by astronauts or an army of advanced robots. ⑤ Australia is also famous for its unique wildlife such as kangaroos. Solar panels in Australia can be cleaned by a teenager with a spray bottle and a cloth.

1. **무관한 문장** 윗글에서 전체 흐름과 관계 없는 문장은?

① ② ③ ④ ⑤

2. **제목** 윗글의 제목으로 가장 적절한 것은?

① Space Solar Panels Are the Cheapest Option
② Robots Will Clean All Panels
③ Teenagers Can Fix Space Debris
④ Launching Costs Have Disappeared
⑤ Why Solar Panels Belong on Earth, Not in Space

2025년 6월 고2 학평 32번

2025년 6월 시행 · 전국연합학력평가

Steve Jobs used analogy to get people to embrace the new technology. (①) Before computers, people worked in a physical world. (②) We used paper and pens and physical file folders and so on. (③) Or at least seemed radically different. (④) What Jobs understood was that a physical office was fundamentally similar to a virtual office. (⑤) To win over the masses, Jobs drew strong analogies between the traditional workplace people knew well with the new, unfamiliar virtual workplace. In the pre-computer workplace, when ideas were written on paper it was called ... a document. When those documents needed to be stored they were put in ... a folder. And those folders were kept on ... a desk. Documents, folders, and desktops are the terms we use in our virtual work because Steve Jobs understood that using familiar terms would make the new technology easier to understand. The parallels between the physical and virtual workplace now seem obvious.

1. 문장 삽입 글의 흐름으로 보아, 다음 문장이 들어가기에 가장 적절한 곳은?

The idea of working in a virtual world was radically different.

① ② ③ ④ ⑤

2. 요지 윗글의 요지로 가장 적절한 것은?

① 잡스는 익숙한 사무실 용어로 새 기술을 설명하는 유추를 통해 사람들이 컴퓨터를 쉽게 받아들이게 했다.
② 가상 업무 공간은 물리적 사무실과 완전히 다르다.
③ 사람들은 새로운 용어를 더 쉽게 배운다.
④ 잡스는 종이 문서를 없애려 했다.
⑤ 유추는 새 기술 이해를 방해한다.

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2024년 6월 시행 · 전국연합학력평가

As the old joke goes: "Software, ① free. User manual, $10,000." But it's no joke. A couple of high-profile companies make their living selling instruction and paid support for free software. The copy of code, being mere bits, is free. The lines of free code become ② valuable to you only through support and guidance. A lot of medical and genetic information will go this route in the coming decades. Right now getting a full copy of all your DNA is very ③ expensive ($10,000), but soon it won't be. The price is ④ rising so fast, it will be $100 soon, and then the next year insurance companies will offer to sequence you for free. When a copy of your sequence costs nothing, the ⑤ interpretation of what it means, what you can do about it, and how to use it—the manual for your genes—will be expensive.

1. 어휘 윗글의 밑줄 친 부분 중, 문맥상 낱말의 쓰임이 적절하지 않은 것은?

① ② ③ ④ ⑤

2. 제목 윗글의 제목으로 가장 적절한 것은?

① DNA Sequencing Will Stay Expensive
② Why Software Manuals Are Free
③ Insurance Companies Hate Genetics
④ Free Code, Costly Guidance
⑤ Copies Are Always Valuable

2024년 3월 고2 학평 21번

2024년 3월 시행 · 전국연합학력평가

If you had wanted to create a “self-driving” car in the 1950s, your best option might have been to ① strap a brick to the accelerator. Yes, the vehicle would have been able to move forward on its own, but it could not slow down, stop, or turn ② to avoid barriers. Obviously not ideal. But does that mean the entire concept of the self-driving car is not worth ③ pursuing? No, it only means that at the time we did not yet have the tools we now possess to help enable vehicles ④ to operate both autonomously and safely. This once-distant dream now seems within our reach. It is much the same story in medicine. Two decades ago, we were still taping bricks to accelerators. Today, we are approaching the point where we can begin to bring some appropriate technology to bear in ways that advance our understanding of patients as unique individuals. In fact, many patients are already ⑤ worn devices that monitor their conditions in real time, which allows doctors to talk to their patients in a specific, refined, and feedback-driven way that was not even possible a decade ago.

1. 어법 윗글의 밑줄 친 부분 중, 어법상 틀린 것은?

① ② ③ ④ ⑤

2. 요지 윗글의 요지로 가장 적절한 것은?

① 자율 주행차는 추구할 가치가 없다.
② 과거에 불가능해 보였던 개념도 기술 발전으로 실현 가능해지며, 의학도 환자를 개인으로 이해하는 단계에 다가가고 있다.
③ 의학 기술은 20년 전과 같다.
④ 실시간 모니터링 기기는 의사 소통을 방해한다.
⑤ 벽돌을 가속 페달에 묶는 것이 최선이다.

2024년 3월 고2 학평 22번

2024년 3월 시행 · 전국연합학력평가

We tend to _____ in part because older technologies have become absorbed into the furniture of our lives, so as to be almost invisible. Take the baby bottle. Here is a simple implement that has transformed a fundamental human experience for vast numbers of infants and mothers, yet it finds no place in our histories of technology. This technology might be thought of as a classic time-shifting device, as it enables mothers to exercise more control over the timing of feeding. It can also function to save time, as bottle feeding allows for someone else to substitute for the mother's time. Potentially, therefore, it has huge implications for the management of time in everyday life, yet it is entirely overlooked in discussions of high-speed society.

1. 빈칸 추론 윗글의 빈칸에 들어갈 말로 가장 적절한 것은?

① ignore the latest gadgets
② overrate the impact of new technologies
③ understand old devices well
④ avoid using any technology
⑤ record every invention

2. 제목 윗글의 제목으로 가장 적절한 것은?

① Why New Technology Is Always Better
② Baby Bottles Slowed Society Down
③ Historians Love Old Technologies
④ Mothers Rejected Bottle Feeding
⑤ The Invisible Revolution of the Baby Bottle

정답 및 해설

9-01 **1.**⑤ **2.**② · 9-02 **1.**③ **2.**④ · 9-03 **1.**① **2.**③ · 9-04 **1.**⑤ **2.**⑤ · 9-05 **1.**③ **2.**① · 9-06 **1.**④ **2.**④ · 9-07 **1.**⑤ **2.**② · 9-08 **1.**② **2.**⑤

9-01 · 2026년 10월 고2 학평 34번
1. ⑤ 상호 연결성은 작은 실패의 영향을 '즉시' 퍼뜨려 새로운 취약성을 만든다. ⑤ slowly → instantly.
2. ② 예전에는 분리되어 있던 제도들이 디지털로 연결되면서, 작은 실패가 빠르게 퍼지는 복잡한 실패의 온상이 되었다는 글이다.

9-02 · 2026년 9월 고2 학평 34번
1. ③ 준비 시간 단축이 요리하는 사람을 '해방시키는' 것이므로 현재분사 liberating이 알맞다. ③ liberated → liberating.
2. ④ 전자레인지의 편리함에 가려 가족이 함께 저녁을 먹는 일이 줄어드는 장기적 변화를 알아차리지 못했다는 것이 요지다.

9-03 · 2026년 9월 고2 학평 35번
1. ① 센서 데이터로 계속 갱신되므로 디지털 트윈은 물리적 대상의 속성과 상태를 '실시간으로 정확히 복제한 것'이 된다.
2. ③ 빨라진 무선망과 실시간 데이터 덕분에 디지털 트윈이 터빈·제트 엔진 같은 값비싼 자산을 실시간으로 복제한다는 내용이다.

9-04 · 2025년 9월 고2 학평 23번
1. ⑤ 글은 태양광 패널을 우주에 두는 것이 비효율적이라는 내용이다. ⑤는 호주의 야생 동물 이야기로 흐름과 무관하다.
2. ⑤ 패널은 싸고 우주에서는 유지 보수가 극히 어려우므로, 태양광 패널을 우주에 설치하는 것은 이치에 맞지 않는다는 글이다.

9-05 · 2025년 6월 고2 학평 32번
1. ③ 종이와 펜으로 일하던 물리적 세계 뒤에 가상 세계에서 일한다는 생각이 완전히 달랐다는 문장이 오고, 이어 Or at least seemed radically different가 이를 받는다.
2. ① 잡스는 문서·폴더·데스크톱처럼 익숙한 사무실 용어를 써서 낯선 가상 업무 공간을 이해하기 쉽게 만들었다는 것이 요지다.

9-06 · 2024년 6월 고2 학평 35번
1. ④ 유전체 분석 가격이 곧 100달러가 될 정도로 빠르게 '떨어지고' 있다. ④ rising → dropping.
2. ④ 복제물이 공짜가 되면 그것을 해석하고 활용하는 안내가 비싸지며, 유전 정보도 그렇게 될 것이라는 글이다.

9-07 · 2024년 3월 고2 학평 21번
1. ⑤ 환자들이 기기를 '착용하고 있는' 진행형이므로 wearing이 알맞다. ⑤ worn → wearing.
2. ② 1950년대 벽돌을 묶은 '자율 주행차'처럼 과거의 한계가 개념의 실패를 뜻하지 않으며, 의학도 이제 개인 맞춤의 단계에 다가간다는 것이 요지다.

9-08 · 2024년 3월 고2 학평 22번
1. ② 오래된 기술은 생활 속에 흡수되어 거의 보이지 않으므로, 우리는 새로운 기술의 영향을 '과대평가하는' 경향이 있다.
2. ⑤ 젖병은 수유 시간을 조절하고 대신할 수 있게 해 삶을 바꾼 기술이지만, 너무 익숙해 기술사에서 간과된다는 글이다.