2024학년도 한국공학대학교 편입학

영어고사 문제지(40문항)

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한국공학대학교
TECH UNIVERSITY OF KOREA

[Questions 1-5] Choose the one that is closest in meaning to the underlined word(s).

1. The illustration had too much redundant detail. The artist should consider streamlining it to enhance its clarity and impact.
   ① deficient ② superfluous
   ③ inadequate ④ incompetent

2. Any attack by enemy soldiers will hamper the arrival of food rations for our troops.
   ① hinder ② assist
   ③ facilitate ④ decelerate

3. What others say and do is a projection of their reality and perception, not yours.
   ① scheme ② operation
   ③ proposal ④ manifestation

4. Today's business environment makes it impossible for organizations to afford to squander any resources. (3 pts.)
   ① dissipate ② engender
   ③ assemble ④ accumulate

5. North Americans often hold off a certain distance in conversation, which is about 21 inches apart found by studies. (2 pts.)
   ① cease ② initiate
   ③ withdraw ④ maintain

[Questions 6-8] Choose the one that best fills in the blank.

6. It's important for writers to avoid using excessive _____ in their work, as it can alienate readers who are not familiar with specialized terms.
   ① slang ② jargon
   ③ parley ④ altercation

7. In the midst of the intense pain, Maximilian's efforts to form coherent words were in vain; his unsteady movements led him to lean against the wall, fighting to remain upright. Maximilian tried to speak, but he could _____ nothing; he staggered, and supported himself against the wall.
   ① refer ② verify
   ③ describe ④ articulate

8. In a last-ditch effort, the suspect chose to _____ for mercy, hoping to avoid the maximum penalty.
   ① plead ② require
   ③ demand ④ litigate

[Questions 9-14] Choose the one that most grammatically completes the sentence.

9. An engineer wears a helmet of sensors—part of a brain scanner that requires _____.
   ① as almost much power as a nuclear submarine
   ② almost as much power as a nuclear submarine
   ③ as much almost as power as a nuclear submarine
   ④ as much as power as an almost nuclear submarine

10. I used to hold two assumptions: one, poor people are poor in part because they're uneducated and don't make good choices; two, they then need people like me to figure out what they need and get it to them. It turns out, the evidence says _____. Dozens of studies indicate that people use direct financial assistance to enhance their own lives in various ways, such as food, security, housing, healthcare, and education.
   ① besides ② otherwise
   ③ likewise ④ in the end

11. In 1989, 170 nations signed the Basel Convention to address the problem of the international trade in waste. The agreement required developed nations to notify developing nations of hazardous waste shipments coming into the country. Six years later, after pressure from environmental groups and developing nations, the Basel Convention _____ hazardous waste shipments to poor countries completely.
   ① modified banning
   ② was modified to ban
   ③ was to modify banning
   ④ was modified to be banned

12. _____ without loads of salt and butter, popcorn can be an excellent healthy snack that contains a surprising amount of nutrients.
   ① Preparing
   ② To prepare
   ③ When prepared
   ④ Unless you prepare

13. Predictive genetic testing poses ethical and practical dilemmas. Personally, I don't think knowing whether I have the potential to develop an incurable disease will, in any way, enhance the quality of my life, _____ interpret the genetic test results without the help of a medical professional.
① I nor would be able to
② nor would I be able to
③ nor I would be able to
④ I would nor be able to

14. Some British scientists suggest _____ a bottom-up method. This contrasts with their view of top-down approaches in the study of animal behavior.
① that they term ② which is termed
③ what they term ④ where they term

[Questions 15-16] Choose the one that is grammatically INCORRECT.

15. A few bones of Spinosaurus have been found in the deserts of Egypt and were described about 100 years ago by a German paleontologist. Unfortunately, ①all his Spinosaurus bones were destroyed in World War II. So all ②we're left with are just a few drawings and notes. From these drawings, we can see this creature, which lived about 100 million years ago, was very big and it had tall spines ③on its back, forming a magnificent sail, and it had long, slender jaws like a crocodile with conical teeth that ④may have used to catch slippery prey like fish.

16. I once worked with this woman who after 20 years of marriage and an extremely ugly divorce, was finally ready for her first date. Ten minutes into the date, the man stands up and says, "I'm not interested," and walks out. The woman was so hurt she couldn't move. All she could do ①was call a friend. Here's what the friend said: "Well, what do you expect? You have big hips, you have nothing interesting to say, ②why would a handsome, successful man like that ever go out with a loser like you?" Shocking, right, that a friend could be so cruel? But it would be much less shocking if I told you it wasn't the friend who said that. It's what the woman said to herself. We all start thinking of all our faults and all our shortcomings ③maybe not as harshly, but ④we all doing it. (3 pts.)

[Questions 17-25] Choose the one(s) that best complete(s) the sentence.

17. Apple first became the world's most valuable stock in 2011, when its market cap was under $340 billion and it comprised about 3.3% of the S&P 500. Since then, it has rarely _____ that title. It first reached $1 trillion in value in mid-2018, and it achieved a $2 trillion valuation in August 2020, making it the first US company to surpass that level.
① held ② forfeited
③ waived ④ involved

18. In this book, "everyday heroes" are not those that personify physical bravery. Though heroes such as firefighters are by no means less praiseworthy, I chose to feature passionate promoters of social justice and equality. Their work is humanitarian in nature. They are founders or leaders of successful nonprofits, representing a diverse range of _____ and people. Nearly all self-identify as social entrepreneurs.
① causes ② cultures
③ sectors ④ corporates

19. Many people fear failure and try to avoid it even when they have the opportunity to succeed. As a result, many people won't attempt something if they think they might fail. _____ their view so that failure is fine and nothing to worry about could be the key to opening new opportunities to be successful in life.
① Altering ② Ignoring
③ Collecting ④ Confirming

20. As K-pop continues its global ascendancy, it is expected to become even more diverse, with an increasing number of independent artists breaking into the scene. Despite the industry's rigid standards, K-pop artists are _____ norms through sophisticated subtexts and modern themes. (2 pts.)
① finding ways challenging
② to find ways challenging
③ finding ways to challenge
④ to find ways to be challenging

21. Most people around the world are right-handed. This fact also seems to have held true throughout history. According to studies, two right-handed parents have only a 9.5 percent chance of having a left-handed child, ____(A)____ two left-handed parents have a 26 percent chance. One simple idea suggests that people normally get right-handedness from their parents, and another common theory is that left-handed people suffer mild brain damage during birth. ____(B)____, if this theory were true, it would not explain why the percentage of left-handed people is so similar in every society. Whatever the reasons behind it, people's attitudes toward left-handedness changed a lot over the years.

① (A) whereas (B) However
② (A) yet (B) In addition
③ (A) all the while (B) Therefore
④ (A) because (B) On the other hand

22. Frequently, engineering students arrive at university armed with good qualifications. However, they are vague about the kind and quality of impact they can make on society when they leave three to four years later. One of the ways in which engineering education programs demonstrate _____ to society is in addressing pressing concerns, such as poverty alleviation and sustainable development in emerging nations. (3 pts.)

① relevance ② complexity
③ exclusivity ④ profitability

23. Just what is a role model? First, let's recognize _____. It is not necessarily the smartest, strongest, or most successful person you know—although it could be. A role model is a person who has the characteristics you want for yourself and who can help you develop those traits.

① what it is
② what he is
③ what it is not
④ what he is not

24. Leo is immeasurably wise. He has so much knowledge and experience and is interested in so many _____ subjects, like Greek history, diamond mining, dinosaurs, and alternative medicine. Even though they are not related he enjoys them all. (2 pts.)

① diverse ② academic
③ technical ④ specialized

25. Modern Paris sits above limestone and gypsum. Over 2,000 years ago, the Romans were the first to mine these stones, leaving behind large holes in the ground and tunnels where the stones had been removed. In the beginning, these tunnels lay beyond the city limits, but as Paris grew, _____. In December 1774, a tunnel collapsed, swallowing houses and people.

① it dug deeper into them
② it was built around them
③ it spread out above them
④ more land was reclaimed

[Questions 26-40] Read the following passages and answer the questions.

[Question 26]

Immortality has become commonplace. It has long departed the field of religion in which it appeared as the motive of the very first cults and therefore, the staple food of believers. In religious contexts, immortality often refers to the indefinite continuation of the soul or mind beyond physical death, a belief that has been a major point of focus and a source of comfort for many believers. However, immortality has acquired the dignity of a scientific subject, studied in laboratories attempting to understand the mechanisms of aging, hoping to control or neutralize them. It is now commonplace in the media to see explanations of the role of telomerase, the enzyme involved in the division of germ cells, to which the body turns for renewal. The opinion according to which senescence is a pathology that might soon be cured is increasingly pervasive—death is a simple disease that will be overcome with antioxidants and a careful diet. There is nothing natural about death, we hear, ever more frequently.

*senescence: 노쇠

26. Which is the best title of the passage?

① The Impact of Diet on Aging and Lifespan
② The Evolution of Immortality: From Religion to Science
③ The Path to Immortality: Antioxidants and Careful Diets
④ The Illusion of Death: How Science is Overcoming Aging

[Question 27]

Medical practice was revolutionized by Hippocrates, the "father of Western medicine." (A) He changed medicine in many ways. (B) For example, he was an advocate for publishing medical knowledge, focusing on patient care rather than diagnosis, and demanding that physicians act professionally. (C) That is, diet and living habits are linked to disease, and making modifications to them may help to reduce the occurrence or severity of certain diseases. (D) Hippocrates' insights into the connections between environment, lifestyle, and health have had a lasting influence, laying the foundation for preventive medicine.

27. Choose the most suitable position of the sentence below in the above passage.

He also recognized that some diseases could be caused by the environment.

① (A) ② (B)
③ (C) ④ (D)

[Question 28]

About a century ago, when General Motors had first proposed adding lead to petrol—in order to improve performance—scientists were alarmed. They urged the government to investigate the public health implications. Thomas Midgley, Jr., American engineer and chemist who discovered the effectiveness of tetraethyl lead as an antiknock additive for gasoline, breezily assured government officials that "the average street will probably be so free from lead that it will be impossible to detect it or its absorption," although he conceded that "no actual experimental data has been taken." General Motors funded a government bureau to conduct some research, adding a clause saying it had to approve the findings. (3 pts.)

28. Which is implied in the passage about General Motors?

① It was unaware of the potential dangers of lead in petrol.
② It actively suppressed evidence regarding the toxicity of lead in petrol.
③ It conducted thorough and unbiased research on the effects of lead in petrol.
④ It added a condition to research funding to approve findings before publication.

[Question 29]

Toxicology is the science of adverse effects of chemical substances on living organisms. Living organisms include the algae in the sea, animals and people, all flora and fauna. There are no safe substances, all chemicals can be poisonous and cause injury or death. But they can be used safely: the effect depends on the dose and exposure. It is possible by limiting these to handle and benefit from the properties of chemical substances in an 'acceptably safe' way. Toxicological studies aim to assess the adverse effects related to different doses in order to find this 'acceptably safe' level.

29. Which is NOT suggested in the above passage?

① All chemicals can potentially cause poisoning and harm at certain doses.
② The effect of a chemical substance depends on the dose and exposure.
③ Toxicological studies aim to find an 'acceptably safe' level of chemical exposure.
④ Toxicology is the study of the beneficial effects of chemical substances on living organisms.

[Question 30]

Artificial Intelligence (AI) is revolutionizing the way we live and work, with applications in various fields such as healthcare, education, and transportation. AI systems can learn, solve problems, and plan, imitating human intelligence and senses like visual perception and speech recognition. However, AI also presents challenges, such as the need to evaluate and recognize truth in the information it generates. As AI continues to evolve, it is crucial for individuals to develop critical thinking skills and learn how to verify the accuracy of information presented by AI systems. This will ensure that the benefits of AI are maximized while potential risks are minimized.

30. According to the passage, what should we do to utilize AI effectively?

① We should only use AI for simple, repetitive tasks and not for complex problem-solving.
② We should avoid using AI until it is perfected and can operate without any human oversight.
③ We should replace human decision-making with AI to ensure maximum efficiency in all sectors.
④ We should cultivate our ability to think critically and learn how to authenticate the information that AI systems provide.

[Question 31]

Intellectual property rights (IPR) have been defined as ideas, inventions, and creative expressions based on which there is a public willingness to bestow the status of property. IPR provide certain exclusive rights to the inventors or creators of that property, in order to enable them to reap commercial benefits from their creative efforts or reputation. There are several types of intellectual property protection like patent, copyright, trademark, etc. IPR is prerequisite for better identification, planning, commercialization, rendering, and thereby protection of invention or creativity. Each industry should evolve its own IPR policies, management style, strategies, and so on depending on its area of specialty. Pharmaceutical industry currently has an evolving IPR strategy requiring a better focus and approach in the coming era.

31. What is the main purpose of IPR in the pharmaceutical industry?
① To restrict access to new drugs and treatments
② To promote sharing of all pharmaceutical innovations
③ To limit the types of intellectual property protection available
④ To enable inventors and creators to benefit commercially from their innovations

[Question 32]

"From the time you're a baby to the time you die, you're an individual who wants to be recognized and respected," Hirami said. She says children start to understand this through their daily interactions with multiple age groups. This understanding shapes their social development and sense of self-worth throughout their lives. (2 pts.)

32. Which best explains the main idea of the above passage?
① A friend is known in necessity.
② Respect is a basic human need.
③ Empty vessels make the most sound.
④ Heaven helps those who help themselves.

[Question 33]

While opinions differ wildly about what the ramifications for society will be if the human lifespan is extended, most ethicists agree that the issue should be discussed now, since it might be impossible to stop or control the technology once it's developed. "If this could ever happen, then we'd better ask what kind of society we want to get," Mike Callahan, an ethicist at Harvard University said, "We had better not go anywhere near it until we have figured those problems out."

33. Which is implied in the passage?
① The human lifespan will definitely be extended in the near future.
② The technology to extend the human lifespan is already developed and ready for use.
③ Most ethicists believe that the issue of extended human lifespan should be discussed now to avoid potential societal issues.
④ Mike Callahan believes that the technology to extend the human lifespan should be developed without considering the consequences.

[Questions 34-35]

Newspaper articles _____: some element of lying is inherent in all journalism because it is impossible for one article to include all the details of the story. Journalists may also manipulate the order in which they present information to achieve more drama or other effects in their writing. Choosing details and the order to describe them is considered proper and ethical behavior for journalists. Editors can even reflect their paper's political bias when writing opinion pieces about elections and politics.

34. Which is true to the above passage?
① Newspaper articles are always unable to convey the complete truth.
② All journalists are required to include every detail of a story in their articles.
③ Journalists are not allowed to manipulate the order of information in their writing.
④ Editors are prohibited from reflecting their paper's political bias in opinion pieces.

35. Which is the most suitable for the blank? (2 pts.)
① should try to be equitable
② should be read with scrutiny
③ can never tell the entire truth
④ can sometimes make ficticious stories

[Questions 36-37]

Scott's expedition brought back 40,000 scientific items, including almost 20 kilograms of rock. Of the 2,000 animal and plant species the expedition brought back, some 400 were new discoveries. The most important fossil, located next to Scott's body, was a tree from 250 million years ago. _____ running low on food, the explorers went in a different direction to enable them to find this fossil. The tree had only been found in Australia, Africa, and South America. So finding it in the Antarctic was proof that these countries and continents had all been joined together in the past.

36. Which is the most emphasized in the above passage?

① The role of teamwork in survival situations
② The physical hardships endured by Scott's team
③ The importance of scientific discovery in Scott's expedition
④ The significance of the tree fossil in proving continental drift

37. Which is the most suitable for the blank? (3 pts.)

① Under ② Despite
③ At the cost of ④ Instead of

[Questions 38-40]

(A) Moor has the essayist's gift for making new connections, the adventurer's love for paths untaken, and the philosopher's knack for asking big questions. With a breathtaking arc that spans from the dawn of animal life to the digital era, *On Trails* is a book that makes us see our world, our history, our species, and our ways of life anew.

(B) While thru-hiking the Appalachian Trail, Moor began to wonder about the paths that lie beneath our feet: How do they form? Why do some improve over time while others fade? What makes us follow or strike off on our own? Over the course of seven years, Moor traveled the globe, exploring trails of all kinds, from the miniscule to the massive. He learned the tricks of master trail-builders, hunted down long-lost Cherokee trails, and traced the origins of our road networks and the Internet. In each chapter, Moor interweaves his adventures with findings from science, history, philosophy, and nature writing.

(C) Throughout, Moor reveals how this single topic—the oft-overlooked trail—sheds new light on a wealth of age-old questions: How does order emerge out of chaos? How did animals first crawl forth from the seas and spread across continents? How has humanity's relationship with nature and technology shaped world around us? And, ultimately, how does each of us pick a path through life?

38. Choose the appropriate order of the paragraphs.

① (A) - (C) - (B)
② (B) - (A) - (C)
③ (B) - (C) - (A)
④ (C) - (A) - (B)

39. What did Moor explore during his seven-year journey?

① The history of the Appalachian Trail
② The techniques of master trail-builders
③ The origins of the Internet and road networks
④ The formation and evolution of trails and paths

40. Which is the best title of the passage?

① Trails: An Exploration of Paths and Life
② The Philosophy of Trails: A Global Exploration
③ The Evolution of Trails: From Ant Paths to the Internet
④ The Wisdom of Trails: A Journey Through Time and Space