

## 2021학년도 편입학 필기시험 문제지 (A형)

일반 편입학 : 인문계·예체능계

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## ◆ 수험생 유의사항 ◆

1. 문제지는 총 40문항으로 구성되어 있습니다.
2. 문항배점  
1번~10번 문항 : 2.0점  
11번~30번 문항 : 2.5점  
31번~40번 문항 : 3.0점
3. 문제지의 유형과 답안지의 유형이 동일한지 확인하고 작성하여야 합니다.
4. 수험번호 표기란과 답안 표기란은 감독관이 지급한 컴퓨터용 사인펜만을 사용하여야 합니다.
5. 답안을 표기할 경우 “●” 같이 정확히 마킹하여야 하며, 부정확한 표기로 인하여 전산상 더블마킹 및 블랭크로 처리되는 것은 수험생의 책임으로 합니다.  
▶ 잘못 표기된 예 : ⊙ ⊙ ⊙
6. 답안을 수정하고자 할 경우 감독관에게 새 답안지를 요청하여 다시 기재하여야 합니다.  
▶ 한번 표기한 답은 “x” 표를 하거나 칼로 긁거나 수정액으로 지우는 등 어떠한 방법으로도 고쳐서는 안되며 고친 문항 및 이중마킹한 경우에는 “0” 점 처리합니다.

**(#1-10) Choose the option that best completes each sentence. (2 points for each question)**

1. The finance minister's opinion \_\_\_\_\_ from that of the prime minister, causing conflict within the party.  
 (1) diverged (2) refrained  
 (3) vanished (4) scrambled
2. As more people migrate to large cities in search of work, the populations of many small towns are \_\_\_\_\_.  
 (1) ascending (2) emerging  
 (3) dwindling (4) prevailing
3. The Early Modern Era \_\_\_\_\_ the period between the end of the Middle Ages and the beginning of the Age of Revolution.  
 (1) classified (2) spanned  
 (3) traversed (4) aligned
4. Because the author's novels were so similar to those of his mentor, many critics dismissed his work as \_\_\_\_\_.  
 (1) causative (2) declarative  
 (3) formative (4) derivative
5. The writing in the old manuscript was so small and faded that much of it was only \_\_\_\_\_ under a magnifying glass.  
 (1) viable (2) legible  
 (3) pliable (4) feasible
6. John's calm face \_\_\_\_\_ the fear he was feeling at that moment.  
 (1) decried (2) enticed  
 (3) dodged (4) belied
7. Tim often \_\_\_\_\_ about his career, telling anyone who would listen that he was a very successful lawyer.  
 (1) boasted (2) seethed  
 (3) wavered (4) exhaled
8. To avoid having to raise additional funds later, the government established an emergency fund to help it deal with any \_\_\_\_\_ that might arise.  
 (1) discretions (2) stipulations  
 (3) contingencies (4) continuities

9. The teacher's instructions were so \_\_\_\_\_ that many students found it extremely difficult to follow them.  
 (1) embroiled (2) superlative  
 (3) preemptive (4) convoluted
10. Susan had always been an introvert, \_\_\_\_\_ social interaction in favor of reading novels or taking peaceful walks.  
 (1) eschewing (2) espousing  
 (3) patronizing (4) nurturing

**(#11-20) Choose the option that is closest in meaning to the underlined part. (2.5 points for each question)**

11. The hotel was popular with surfers, as it was located in close proximity to the area's beaches.  
 (1) openness (2) similarity  
 (3) nearness (4) comparison
12. After being criticized by his manager, the employee complained to his coworkers that the admonition had been unfair.  
 (1) burden (2) hassle  
 (3) fatigue (4) scolding
13. The ex-convict devoted himself to community service in an attempt to atone for his past misdeeds.  
 (1) cover up (2) make amends  
 (3) have concern (4) show consideration
14. Repairs began immediately on the dam, whose structural integrity had been compromised by the earthquake.  
 (1) measured (2) shattered  
 (3) harassed (4) impaired
15. The travel brochure recommends a rather circuitous route to the hotel in order to help travelers avoid congested roads.  
 (1) roundabout (2) makeshift  
 (3) steadfast (4) easygoing
16. To expedite the immigration check, please have your arrival card filled out before you approach the window.  
 (1) certify (2) prompt  
 (3) hasten (4) impose

17. Never one to hide her opinion, Nancy always spoke with great candor.  
 (1) solidarity (2) sympathy  
 (3) frankness (4) reserve
18. The students were mesmerized by the amazing science demonstration and simply could not look away.  
 (1) spellbound (2) dismayed  
 (3) forsaken (4) gratified
19. Restaurants that offer fine dining are fastidious about the quality of everything from ingredients to service.  
 (1) peevish (2) exacting  
 (3) frivolous (4) outdated
20. To disguise their invasion plans, the Allies engaged in a campaign of subterfuge prior to the Normandy landings.  
 (1) deception (2) warfare  
 (3) hostility (4) persuasion

(#21-30) Identify the one underlined expression that must be corrected in each sentence. (2.5 points for each question)

21. Korean was her second language, Jen constantly had to look up unfamiliar words while reading Korean novels.  
 (1) (2) (3) (4)
22. Employees seeking to be reimbursed for business-related expenses are required to submit relevant documentations such as receipts to support their claims.  
 (1) (2) (3) (4)
23. Upon learning that its product was potentially defective, the company wasted no time in issuing a public warning and urging customers are returning it for a full refund.  
 (1) (2) (3) (4)

24. While many couples still want to have a large, traditional wedding, other now prefer to hold a small, intimate ceremony with only close friends and family members present.  
 (1) (2) (3) (4)
25. Because the president's approval rating stood at a dismal 32%, virtually no one thought she had much of a chance for prevailing in the upcoming election.  
 (1) (2) (3) (4)
26. Although the medical test has been strongly recommended, few doctors are actually using it, that is very unfortunate.  
 (1) (2) (3) (4)
27. The candidate requested that his campaign advertisement was aired as much as was allowed under current campaign regulations.  
 (1) (2) (3) (4)
28. The rumors surrounding the CEO's retirement plan was determined to have come from a wholly unreliable source and therefore to be without merit.  
 (1) (2) (3) (4)
29. After disembark from the airplane, the traveler was asked to submit to a health examination, as she had shown various signs of illness during the flight, including coughing and a runny nose.  
 (1) (2) (3) (4)

30. The National Library, which was designed by  
 (1) none other than Robert Wilson, perhaps the most  
 (2) famous architect in the country, has designated a  
 (3) historic monument.  
 (4)

(#31-40) Read the following passages and choose the one best answer for each question. (3 points for each question)

Questions 31-33 are based on the following passage.

Despite their reputation for opposing the development of alternative energy sources, oil companies were early adopters of solar energy technology. In the 1970s, for example, one major American oil company installed this technology on its off-shore oil rigs. For safety reasons, these rigs were required by federal law to have bright lights. On most rigs, these lights were powered by batteries that needed to be replaced frequently and at great expense. The used batteries also often ended up in the sea, creating an environmental liability for rig operators. Seeking a better way of illuminating their rigs, the oil company turned to solar panels, which had been pioneered by government space agencies decades earlier. The company's efforts represented one of the earliest commercial applications of solar power and a significant step toward bringing down the cost of generating such power.

31. Which of the following is closest in meaning to the underlined phrase bringing down?
- (1) avoiding (2) damaging  
 (3) reducing (4) delivering
32. According to the passage, what did the oil company use solar energy for?
- (1) To provide backup power for its oil rigs  
 (2) To transport the oil produced by its oil rigs  
 (3) To illuminate the sea floor during oil exploration  
 (4) To maintain a consistent power supply for the lights on its oil rigs

33. What can be inferred from the passage?
- (1) Space flight engineers commercialized solar panels.  
 (2) The lights on off-shore oil rigs were normally fueled mainly by oil.  
 (3) Off-shore oil rig workers threw spent batteries into the sea.  
 (4) Solar panels were found to function poorly off shore.

Questions 34-36 are based on the following passage.

The cone snail is an ocean-dwelling creature that hunts fish using its powerful venom. Because it is slow moving, it relies on a spearlike object on its head to strike its prey and inject its venom from a distance. This venom incapacitates fish, which allows the cone snail to capture and consume them. Except in the case of relatively large specimens, cone snails do not generally deliver a sting powerful enough to kill humans. (A), their venom can produce swelling, muscle paralysis, and breathing problems. Another effect of the venom is localized numbness, which keeps prey from realizing that it has been struck by the cone snail. Using the chemical compounds that mimic this effect, scientists have created a drug that reduces sensitivity to pain. This drug has been approved by the US Food and Drug Administration for medical use.

34. Which of the following is most appropriate for blank (A)?
- (1) Finally (2) Therefore  
 (3) Still (4) Moreover
35. Which of the following is correct about cone snails?
- (1) They inject venom by biting prey with their sharp teeth.  
 (2) They grab onto their prey before injecting their venom.  
 (3) Their venom is almost always fatal to humans.  
 (4) Their victims may remain unaware of having been stung.
36. What is the medicine developed from cone snail venom designed to do?
- (1) Dull pain (2) Relax muscles  
 (3) Lessen numbness (4) Improve breathing

Questions 37-40 are based on the following passage.

The British artist J. M. W. Turner is reputed to have gone to incredible lengths to capture the essence of nature. According to one story, he was so bent on experiencing the natural world depicted in his paintings that he once tied himself to the mast of a ship during a ferocious storm. Afterwards, it is said, he drew on his ordeal to create one of his masterpieces, *Snow Storm* (1842). While most experts dismiss the anecdote about Turner being tied to the mast as a     (A)    , they acknowledge that he did have first-hand knowledge of the storm in question. Turner himself was eager for the world to know that he had witnessed the storm that he later depicted. In fact, he gave the painting an **outlandishly** detailed title (usually abbreviated) emphasizing the fact that he had been aboard the ship during the storm. When *Snow Storm* was unveiled, it was rapturously received by John Ruskin, one of the Victorian era's foremost art critics. However, few others shared Ruskin's sentiments toward Turner's painting. Despite the frostiness of this initial reaction, *Snow Storm* has gone on to become an iconic example of British Romantic painting. Inspired by the story of its genesis, a major figure in modern British art even reenacted Turner's legendary ordeal, which the modern artist likened to Christ's crucifixion.

37. Which of the following is most appropriate for blank (A)?

- (1) fabrication                      (2) calamity  
(3) torment                            (4) disappointment

38. Which of the following is closest in meaning to the underlined word **outlandishly**?

- (1) deceptively                      (2) methodically  
(3) absurdly                            (4) gracefully

39. Why did Turner allegedly tie himself to a ship's mast?

- (1) To reenact the ordeal of an earlier British artist  
(2) To gain direct observations of powerful natural phenomena  
(3) To be able to continue working on a painting during a storm  
(4) To make a symbolic point about Jesus Christ's crucifixion

40. Which is correct about Turner's painting *Snow Storm*?

- (1) It was not actually a painting of a snow storm.  
(2) It was given an unusually long title by the artist.  
(3) It was dismissed by the influential John Ruskin.  
(4) It was largely well received by the era's critics.

정답 (A형)	
문항	정답
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28	2
29	1
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31	3
32	4
33	3
34	3
35	4
36	1
37	1
38	3
39	2
40	2

## 2021학년도 편입학 필기시험 문제지 (A형)

학사편입학  
농어촌학생편입학  
특성화고교졸업자 편입학  
기회균형선발편입학  
재외국민편입학

지원캠퍼스	수원(     ), 서울(     )
지원학과	
수험번호	
성명	



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## (#1-10) Choose the option that best completes each sentence. (2 points for each question)

1. Whenever you strongly disagree with someone's beliefs, try to remember that they are still \_\_\_\_\_ to their opinion.  
 (1) entitled (2) obligated  
 (3) indebted (4) designated
2. Before the children's argument got out of hand, their father \_\_\_\_\_ by separating them.  
 (1) hesitated (2) intervened  
 (3) terminated (4) persevered
3. The committee members believe that the proposal to redevelop the waterfront area is not \_\_\_\_\_ due to the extremely high cost.  
 (1) candid (2) pompous  
 (3) feasible (4) tenuous
4. The manager's encouragement greatly \_\_\_\_\_ the employee's confidence, allowing him to deliver a fine speech.  
 (1) intrigued (2) bolstered  
 (3) conveyed (4) secluded
5. When stuck at home, many people travel \_\_\_\_\_ by watching travel shows about faraway countries.  
 (1) contingently (2) incidentally  
 (3) intrinsically (4) vicariously
6. The protestors became so \_\_\_\_\_ that police were called in to stop their disruptive behavior.  
 (1) leery (2) shrewd  
 (3) unruly (4) benign
7. The divisions in congress have \_\_\_\_\_ progress on environmental legislation.  
 (1) extracted (2) deduced  
 (3) hoarded (4) hindered
8. The politician socialized with many celebrities in the hope of \_\_\_\_\_ himself with their fans.  
 (1) arbitrating (2) ingratiating  
 (3) emulating (4) lampooning

9. The journalist did not have time to do research for a new article, so she simply \_\_\_\_\_ material from her previous work.  
 (1) rehashed (2) reproached  
 (3) rebuffed (4) rebuked
10. If people were not so \_\_\_\_\_ by the governor's charisma, they would realize that she is an ineffective leader.  
 (1) discarded (2) beguiled  
 (3) annulled (4) repulsed

## (#11-20) Choose the option that is closest in meaning to the underlined part. (2.5 points for each question)

11. Agatha Christie was a prolific writer, publishing 66 detective novels and 14 short story collections in her career.  
 (1) original (2) productive  
 (3) tolerant (4) celebrated
12. Unless we hold our elected representatives accountable for their actions, corruption in politics will continue.  
 (1) predictable (2) appropriate  
 (3) responsible (4) grateful
13. After signing the peace treaty, the two adjacent countries demilitarized their shared border.  
 (1) warring (2) neighboring  
 (3) affiliated (4) protracted
14. The investor recouped her previous losses by making several well-timed investments later.  
 (1) got back (2) explained away  
 (3) paid off (4) looked into
15. Employees who consistently arrive to work late may be formally reprimanded by their supervisor.  
 (1) undermined (2) ridiculed  
 (3) admonished (4) discharged
16. The president was circumspect in choosing his advisors, as he knew that he would have to rely heavily on their counsel.  
 (1) cautious (2) devious  
 (3) genuine (4) industrious

17. The dissolution of the business partnership was quite amicable, so the former partners remained on good terms.

- (1) historic (2) friendly  
(3) leisurely (4) efficient

18. There was a tacit understanding that the band members would share songwriting credits for the album.

- (1) conditional (2) legal  
(3) implicit (4) dubious

19. To help readers understand a complex novel, editors often attempt to encapsulate the work's main ideas in a brief foreword.

- (1) fictionalize (2) glorify  
(3) summarize (4) denigrate

20. The scrupulous care he put into his work helped him advance at the company.

- (1) unrelenting (2) obsessive  
(3) escalating (4) meticulous

(#21-30) Identify the one underlined expression that must be corrected in each sentence. (2.5 points for each question)

21. Many people nowadays chose to adopt a pet from a shelter rather than to buy a pet from a pet shop, as they want to save an abandoned animal.

- (1)  
(2)  
(3) (4)

22. If the company has offered slightly better contract terms, most of the union members would not have voted to go on strike.

- (1)  
(2) (3)  
(4)

23. Effective public speakers know how to use body language and eye contact to maintain an attention of their audience and to emphasize the most important points in their speech.

- (1) (2)  
(3)  
(4)

24. Standard Motors has which many automotive industry analysts describe as by far the best lineup of electric vehicles currently on the market.

- (1) (3)  
(2) (4)

25. Because of its reputation for servicing excellent food at reasonable prices, Lily Restaurant has become incredibly popular among tourists visiting to Port Morrison.

- (1)  
(2)  
(3)  
(4)

26. Even though the nation is experiencing serious economic problems, few political leaders seem willing to fight for the difficult reforms are needed to put the country on a path toward a sustainable recovery.

- (1) (2)  
(3)  
(4)

27. Although George was the CEO's nephew, he requested that he was treated no differently than any other employee starting out at the company.

- (1) (2)  
(3) (4)

28. Once the requirements for the vacant position was relaxed, a flood of people applied, taking the manager quite by surprise.

- (1) (3)  
(2) (4)

29. This documentary seeks to describe the men and women who moved west during the Gold Rush and to explain the nearly insurmountable difficulties that these people faced with while attempting to build new lives.

- (1) (2)  
(3)  
(4)

30. Not one to overlook selfless dedication, the boss  
 (1)  
 proposed giving some sort of reward to staff for  
 (2)  
 coming in devotedly on weekends and worked  
 (3) (4)  
 extra hours during the week.

(#31-40) Read the following passages and choose the one best answer for each question. (3 points for each question)

Questions 31-33 are based on the following passage.

In ancient times, purple dye was harvested laboriously from the glands of shellfish called mollusks. The difficulty of obtaining even small amounts of dye in this way, combined with the dye's resistance to fading, made the shade a symbol of wealth and power. For example, for thousands of years, purple was associated with royalty. Then in 1858, while searching for a cure for malaria, British chemist William Henry Perkin stumbled upon an artificial substance that produced a purple hue. Recognizing the value of his discovery, he trademarked this substance as "mauveine," a name recalling a type of purple flower. The invention sparked a revolution in the fashion world and made Perkin a wealthy man. At the same time, however, it undermined the air of exclusivity that had accompanied the color purple since the days of the Phoenicians.

31. Which of the following is closest in meaning to the underlined phrase stumbled upon?
- (1) found by accident      (2) shared publicly  
 (3) studied carefully      (4) made in a hurry
32. What led William Henry Perkin to the discovery of his purple dye?
- (1) A desire to reproduce ancient colors  
 (2) An experiment on a flower called mauveine  
 (3) An attempt to develop a new medical treatment  
 (4) A study of the use of mollusks by the Phoenicians

33. What can be inferred from the passage?
- (1) Perkin was uninterested in profiting from his purple dye.  
 (2) Perkin's purple dye faded more quickly than conventional ones.  
 (3) Perkin experimented with shellfish while searching for a malaria cure.  
 (4) Perkin's purple dye was inexpensive compared with traditional ones.

Questions 34-36 are based on the following passage.

Australia has seven species of stinging trees, the most painful of which is probably *Dendrocnide moroides*. This small shrub grows in light-filled clearings in rainforests and has leaves up to 50 cm wide. These leaves are covered in fine hairs, which make them look soft to the touch. When they come into contact with skin, however, they inject a painful toxin. This toxin takes effect immediately, reaching maximum intensity within half an hour, and persists for days or weeks. Rubbing or washing the affected area does little to relieve the stinging, as the hairs tend to be lodged in the skin. Just being in the (A) of these plants is hazardous, as they fill the air nearby with particles that can cause serious respiratory damage. Despite the potency of its toxin, the plant is consumed by several insect species and a marsupial called the red-legged pademelon.

34. Which of the following is most appropriate for blank (A)?
- (1) existence      (2) similarity  
 (3) vicinity      (4) appearance
35. How long does it take for the stinging to reach its peak?
- (1) Less than half an hour  
 (2) Half an hour to an hour  
 (3) A few hours to a full day  
 (4) A few days to a few weeks
36. What should people probably do if they are stung by *Dendrocnide moroides*?
- (1) Rub the affected area  
 (2) Apply pressure to the skin  
 (3) Remove any remaining hairs  
 (4) Wash the area around the sting

Questions 37-40 are based on the following passage.

In Christian art, a Pietà is an artwork depicting the Virgin Mary holding the crucified body of Jesus. While these artworks take many forms, they are typically sculptures, with the earliest examples being wooden figures crafted in Germany in the Middle Ages. By the 15th century, the image, which was never explicitly mentioned in the Bible, had made its way to Italy. In 1497, Michelangelo, perhaps the country's most famous sculptor, was commissioned by a French cardinal to create a marble Pietà. This work, which was to adorn the cardinal's tomb after his death in 1499, became one of Michelangelo's masterpieces. He started the sculpture in 1498, and after months of labor, he unveiled it to widespread acclaim. Unlike virtually all his other works, it bears the sculptor's name, which was added after Michelangelo learned that another artist had been falsely **credited** with its creation. The sculpture exemplifies the Italian Renaissance principles of naturalism, an artistic style that emphasized idealized yet highly lifelike detail.     (A)    , Michelangelo's figures exhibit grossly distorted proportions, with Mary dwarfing the lifeless figure of Jesus. Some view this artistic choice as an attempt to evoke the idea of a child in his mother's arms. However, others argue that the sculpture's proportions were merely intended to provide the viewer with a sense of stability.

37. Which of the following is correct according to the passage?

- (1) Pietàs have been created in a variety of different media.
- (2) Pietàs were developed in Italy before spreading to Germany.
- (3) Michelangelo started his Pietà after the French cardinal's death.
- (4) Michelangelo depicted Mary as being small compared with Jesus.

38. Which of the following is closest in meaning to the underlined word **credited**?

- (1) aggrandized                      (2) acknowledged
- (3) reimbursed                      (4) complimented

39. Which of the following is most appropriate for blank (A)?

- (1) Nevertheless                      (2) Consequently
- (3) For instance                      (4) To summarize

40. What can be inferred from the passage?

- (1) Michelangelo feared being denied recognition for sculpting his Pietà.
- (2) Michelangelo clarified the reason for his sculpture's odd proportions.
- (3) Michelangelo's Pietà was regarded as flawed upon its public unveiling.
- (4) Michelangelo's Pietà surprised Renaissance viewers with its unusual style.

정답 (A형)	
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40	1

## 2021학년도 편입학 필기시험 문제지 (A형)

일반편입학 : 자연계

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## ◆ 수험생 유의사항 ◆

1. 문제지는 총 45문항으로 구성되어 있습니다.
2. 문항배점  
1번~10번 문항(영어) : 1.5점  
11번~20번 문항(영어) : 2.0점  
21번~25번 문항(영어) : 3.0점  
26번~35번 문항(수학) : 2.0점  
36번~45번 문항(수학) : 3.0점
3. 문제지의 유형과 답안지의 유형이 동일한지 확인하고 작성하여야 합니다.
4. 수험번호 표기란과 답안 표기란은 감독관이 지급한 컴퓨터용 사인펜만을 사용하여야 합니다.
5. 답안을 표기할 경우 “●” 같이 정확히 마킹하여야 하며, 부정확한 표기로 인하여 전산상 더블마킹 및 블랭크로 처리되는 것은 수험생의 책임으로 합니다.  
▶ 잘못 표기된 예 : ⊙ ⊙ ⊙
6. 답안을 수정하고자 할 경우 감독관에게 새 답안지를 요청하여 다시 기재하여야 합니다.  
▶ 한번 표기한 답은 “x” 표를 하거나 칼로 긁거나 수정액으로 지우는 등 어떠한 방법으로도 고쳐서는 안되며 고친 문항 및 이중마킹한 경우에는 “0” 점 처리합니다.



**(#1-10) Choose the option that best completes each sentence. (1.5 points for each question)**

1. Whenever you strongly disagree with someone's beliefs, try to remember that they are still \_\_\_\_\_ to their opinion.  
 (1) entitled (2) obligated  
 (3) indebted (4) designated
2. Before the children's argument got out of hand, their father \_\_\_\_\_ by separating them.  
 (1) hesitated (2) intervened  
 (3) terminated (4) persevered
3. The committee members believe that the proposal to redevelop the waterfront area is not \_\_\_\_\_ due to the extremely high cost.  
 (1) candid (2) pompous  
 (3) feasible (4) tenuous
4. The manager's encouragement greatly \_\_\_\_\_ the employee's confidence, allowing him to deliver a fine speech.  
 (1) intrigued (2) bolstered  
 (3) conveyed (4) secluded
5. When stuck at home, many people travel \_\_\_\_\_ by watching travel shows about faraway countries.  
 (1) contingently (2) incidentally  
 (3) intrinsically (4) vicariously
6. The protestors became so \_\_\_\_\_ that police were called in to stop their disruptive behavior.  
 (1) leery (2) shrewd  
 (3) unruly (4) benign
7. The divisions in congress have \_\_\_\_\_ progress on environmental legislation.  
 (1) extracted (2) deduced  
 (3) hoarded (4) hindered
8. The politician socialized with many celebrities in the hope of \_\_\_\_\_ himself with their fans.  
 (1) arbitrating (2) ingratiating  
 (3) emulating (4) lampooning

9. The journalist did not have time to do research for a new article, so she simply \_\_\_\_\_ material from her previous work.  
 (1) rehashed (2) reproached  
 (3) rebuffed (4) rebuked
10. If people were not so \_\_\_\_\_ by the governor's charisma, they would realize that she is an ineffective leader.  
 (1) discarded (2) beguiled  
 (3) annulled (4) repulsed

**(#11-15) Choose the option that is closest in meaning to the underlined part. (2 points for each question)**

11. Unless we hold our elected representatives accountable for their actions, corruption in politics will continue.  
 (1) predictable (2) appropriate  
 (3) responsible (4) grateful
12. The investor recouped her previous losses by making several well-timed investments later.  
 (1) got back (2) explained away  
 (3) paid off (4) looked into
13. The president was circumspect in choosing his advisors, as he knew that he would have to rely heavily on their counsel.  
 (1) cautious (2) devious  
 (3) genuine (4) industrious
14. There was a tacit understanding that the band members would share songwriting credits for the album.  
 (1) conditional (2) legal  
 (3) implicit (4) dubious
15. The scrupulous care he put into his work helped him advance at the company.  
 (1) unrelenting (2) obsessive  
 (3) escalating (4) meticulous

(#16-20) Identify the one underlined expression that must be corrected in each sentence. (2 points for each question)

16. If the company has offered slightly better  
(1)  
contract terms, most of the union members  
(2) (3)  
would not have voted to go on strike.  
(4)
17. Effective public speakers know how to use body  
(1) (2)  
language and eye contact to maintain an  
(3)  
attention of their audience and to emphasize the  
most important points in their speech.  
(4)
18. Standard Motors has which many automotive  
(1)  
industry analysts describe as by far the best  
(2) (3)  
lineup of electric vehicles currently on the  
(4)  
market.
19. Because of its reputation for servicing excellent  
(1)  
food at reasonable prices, Lily Restaurant  
(2)  
has become incredibly popular among tourists  
(3)  
visiting to Port Morrison.  
(4)
20. This documentary seeks to describe the men and  
(1)  
women who moved west during the Gold Rush  
and to explain the nearly insurmountable  
(2)  
difficulties that these people faced with while  
(3)  
attempting to build new lives.  
(4)

(#21-25) Read the following passages and choose the one best answer for each question. (3 points for each question)

Questions 21-23 are based on the following passage.

In ancient times, purple dye was harvested laboriously from the glands of shellfish called mollusks. The difficulty of obtaining even small amounts of dye in this way, combined with the dye's resistance to fading, made the shade a symbol of wealth and power. For example, for thousands of years, purple was associated with royalty. Then in 1858, while searching for a cure for malaria, British chemist William Henry Perkin stumbled upon an artificial substance that produced a purple hue. Recognizing the value of his discovery, he trademarked this substance as "mauveine," a name recalling a type of purple flower. The invention sparked a revolution in the fashion world and made Perkin a wealthy man. At the same time, however, it undermined the air of exclusivity that had accompanied the color purple since the days of the Phoenicians.

21. Which of the following is closest in meaning to the underlined phrase stumbled upon?
- (1) found by accident (2) shared publicly  
(3) studied carefully (4) made in a hurry
22. What led William Henry Perkin to the discovery of his purple dye?
- (1) A desire to reproduce ancient colors  
(2) An experiment on a flower called mauveine  
(3) An attempt to develop a new medical treatment  
(4) A study of the use of mollusks by the Phoenicians
23. What can be inferred from the passage?
- (1) Perkin was uninterested in profiting from his purple dye.  
(2) Perkin's purple dye faded more quickly than conventional ones.  
(3) Perkin experimented with shellfish while searching for a malaria cure.  
(4) Perkin's purple dye was inexpensive compared with traditional ones.

Questions 24-25 are based on the following passage.

Australia has seven species of stinging trees, the most painful of which is probably *Dendrocnide moroides*. This small shrub grows in light-filled clearings in rainforests and has leaves up to 50 cm wide. These leaves are covered in fine hairs, which make them look soft to the touch. When they come into contact with skin, however, they inject a painful toxin. This toxin takes effect immediately, reaching maximum intensity within half an hour, and persists for days or weeks. Rubbing or washing the affected area does little to relieve the stinging, as the hairs tend to be lodged in the skin. Just being in the \_\_\_ (A) \_\_\_ of these plants is hazardous, as they fill the air nearby with particles that can cause serious respiratory damage. Despite the potency of its toxin, the plant is consumed by several insect species and a marsupial called the red-legged pademelon.

24. Which of the following is most appropriate for blank (A)?

- (1) existence                      (2) similarity
- (3) vicinity                        (4) appearance

25. How long does it take for the stinging to reach its peak?

- (1) Less than half an hour
- (2) Half an hour to an hour
- (3) A few hours to a full day
- (4) A few days to a few weeks

26.  $\lim_{n \rightarrow \infty} n \int_0^{1/n} \cos^2 x \, dx$ 의 값은? [2점]

- ① 0                      ②  $\frac{1}{4}$                       ③  $\frac{1}{2}$                       ④ 1

27. 직선  $y = 2 - x$ 와 곡선  $y = \sqrt{x}$  그리고  $y$ 축으로 둘러싸인 영역을  $x$ 축을 회전축으로 회전시켜 얻은 입체의 부피는? [2점]

- ①  $\frac{11}{6}\pi$                       ②  $2\pi$                       ③  $\frac{13}{6}\pi$                       ④  $\frac{7}{3}\pi$

28. 1에서 함수  $f(x) = x^5 + 3x^2 + 2$ 의 테일러급수에 대한  $(x-1)^5$ 의 계수는? [2점]

- ①  $\frac{1}{5!}$                       ②  $\frac{1}{5}$                       ③ 1                      ④ 5!

29. 이중적분  $\int_0^1 \int_{2y}^2 y e^{x^3} \, dx \, dy$ 의 값은? [2점]

- ①  $\frac{1}{6}(e^4 - 1)$                       ②  $\frac{1}{6}(e^8 - 1)$                       ③  $\frac{1}{24}(e^4 - 1)$                       ④  $\frac{1}{24}(e^8 - 1)$

30. 편각  $\theta$ 에 대한 극방정식  $r = \cos(3\theta) (0 \leq \theta \leq \pi)$ 와  $r = \frac{1}{3} (0 \leq \theta \leq 2\pi)$ 로 주어진 두 곡선의 교점의 개수는? [2점]

- ① 2                      ② 6                      ③ 8                      ④ 12

31.  $A$ 가 임의의  $n \times n$ (실)행렬일 때, 다음 중 옳지 않은 것은? [2점]

- ①  $n$ 이 짝수이고  $A + A^T = O$ 이면  $\det(A) = 0$ 이다. (단,  $O$ 는 영행렬이다.)
- ②  $\det(A^T A) \geq 0$ 이다.
- ③  $\det((-1)^n A) = (-1)^n \det(A)$ 이다.
- ④  $A$ 의 모든 성분이 정수이고  $\det(A) = 1$ 이면  $A^{-1}$ 의 모든 성분도 정수이다.

32.  $2 \times 2$ (실)행렬로 이루어진 벡터공간  $M_{2 \times 2}$ 의 부분공간  $\{B \in M_{2 \times 2} \mid B = B^T\}$ 의 차원은? [2점]

- ① 1                      ② 2                      ③ 3                      ④ 4

33.  $3 \times 3$ 행렬  $A$ 에 대하여  $\det(A) = 2$ 일 때,  $\det(\text{adj} A)$ 의 값은? [2점]

- ①  $\frac{1}{2}$                       ② 2                      ③  $\frac{1}{4}$                       ④ 4

34. <보기>에서 서로 수직인 두 직선을 고르면? [2점]

<보기>			
가. $3x - 5y = 2$	나. $2x + 3y = 5$	다. $x - 2y = 4$	라. $2x + y = 3$

- ① 가, 나                      ② 나, 다                      ③ 다, 라                      ④ 서로 수직인 두 직선은 없다.

35.  $A(x) = \begin{pmatrix} 2x & 0 \\ 0 & 2-x \end{pmatrix}$ 일 때, 행렬급수  $\sum_{n=1}^{\infty} \frac{1}{4^n n} [A(x)]^n$ 이 수렴하는  $x$ 의 구간 중 옳은 것은? [2점]

- ①  $(-2, 2)$                       ②  $[-2, 2)$                       ③  $[-2, 6]$                       ④  $(-2, 6]$

36. <보기>에서 참인 것을 모두 고르면? [3점]

<보기>

가.  $\lim_{n \rightarrow \infty} \left( \int_{-1}^{-1/n} \frac{1}{x} dx + \int_{1/n}^1 \frac{1}{x} dx \right) = 0$ 이다.

나.  $\int_{-1}^1 \frac{1}{x} dx = 0$ 이다.

다.  $f : (0, \infty) \rightarrow \mathbb{R}$  가 증가함수이고 이상적분  $\int_0^{\infty} f(x) dx$  가 수렴하면  $\lim_{x \rightarrow \infty} f(x) = 0$ 이다.

라. 함수  $f : (0, \infty) \rightarrow \mathbb{R}$  에 대한 이상적분  $\int_0^{\infty} |f(x)| dx$  가 수렴하면  $\lim_{x \rightarrow \infty} f(x) = 0$ 이다.

- ① 가, 나      ② 가, 다      ③ 가, 다, 라      ④ 가, 나, 다, 라

37. 모든 실수  $x$ 에 대하여  $f(x) = [x^2]$ 라 하고, 각 자연수  $n$ 에 대하여  $a_n$ 을 구간  $(-n, n)$ 에서  $f$ 의 불연속점의 개수라 할 때,  $\sum_{n=2}^{\infty} \frac{1}{a_n}$ 의 값은? (단,  $[x]$ 는  $x$ 를 넘지 않는 최대 정수이다.) [3점]

- ①  $\frac{3}{8}$       ②  $\frac{1}{2}$       ③  $\frac{5}{8}$       ④  $\frac{3}{4}$

38. 세 함수  $f, g, h : \mathbb{R} \rightarrow \mathbb{R}$  가 <보기>의 성질을 만족할 때,  $f'(1)$ 의 값은? [3점]

<보기>

가. 모든 실수  $x$ 에 대하여  $g(x) \leq f(x) \leq h(x)$ 이다.

나.  $\lim_{x \rightarrow 1} g(x) = \lim_{x \rightarrow 1} h(x)$ 이다.

다.  $g'(1)$ 이 존재한다.

라. 모든 실수  $x$ 에 대하여  $h(x) = x \tan^{-1} x$ 이다.

- ①  $\frac{1}{4} + \frac{\pi}{4}$       ②  $\frac{1}{4} + \frac{\pi}{2}$       ③  $\frac{1}{2} + \frac{\pi}{2}$       ④  $\frac{1}{2} + \frac{\pi}{4}$

39. 함수  $f: \mathbb{R}^2 \rightarrow \mathbb{R}$  가  $(0,0)$  의 근방에서 미분가능하고 벡터  $v = \left(\frac{2}{\sqrt{5}}, \frac{1}{\sqrt{5}}\right)$ ,  $w = \left(-\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$  에 대한 방향도함수가  $D_v f(0,0) = \frac{3}{\sqrt{5}}$ ,  $D_w f(0,0) = -\frac{1}{\sqrt{2}}$  일 때, 벡터  $u = \left(\frac{3}{\sqrt{10}}, \frac{1}{\sqrt{10}}\right)$  에 대한 방향도함수  $D_u f(0,0)$  의 값은? [3점]

- ①  $\frac{11}{3\sqrt{10}}$       ②  $\frac{4}{\sqrt{10}}$       ③  $\frac{13}{3\sqrt{10}}$       ④  $\frac{14}{3\sqrt{10}}$

40. 양항급수  $\sum_{n=1}^{\infty} a_n$  이 수렴할 때, <보기>에서 항상 참인 것을 모두 고르면? [3점]

<보기>

가. 모든 자연수  $n$ 에 대하여  $b_n \leq a_n$  이면 급수  $\sum_{n=1}^{\infty} b_n$  은 수렴한다.

나. 모든 자연수  $n$ 에 대하여  $b_n > a_n$  이면 급수  $\sum_{n=1}^{\infty} b_n$  은 발산한다.

다. 모든 자연수  $n$ 에 대하여  $b_n > 0$  이고  $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = c$  인 양수  $c$ 가 존재하면 급수  $\sum_{n=1}^{\infty} b_n$  은 수렴한다.

- ① 가, 다      ② 다      ③ 나      ④ 가

41. 행렬  $A$  와 행렬  $\begin{pmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{pmatrix}$  가 닮음일 때, 다음 중 옳지 않은 것은? [3점]

- ①  $A$  는 가역행렬이다.  
 ②  $A$  의 고윳값은 1, 2 이다.  
 ③  $A$  의 각 고윳값에 대응하는 고유공간의 차원은 알 수 없다.  
 ④  $\det(A^{-1}) = \frac{1}{4}$  이다.

42. 다음 중 곡선  $2x^2 + 2xy + 2y^2 = 6$  의 그래프와 합동인 그래프를 갖는 곡선의 방정식은? [3점]

- ①  $4x^2 + y^2 = 6$                       ②  $3x^2 + y^2 = 6$
- ③  $2x^2 + y^2 = 6$                       ④  $x^2 + y^2 = 6$

43. 고윳값이  $\lambda_1, \lambda_2, \lambda_3$  인  $3 \times 3$  행렬  $A$  에 대하여  $tr(A^2) = 3$  이고  $tr(A) = 1$  일 때,  $\lambda_1 \lambda_2 + \lambda_1 \lambda_3 + \lambda_2 \lambda_3$  의 값은? [3점]

- ① -1                      ② 0                      ③ 1                      ④ 3

44. (실)행렬  $A$  가 상삼각행렬일 때, <보기>에서 항상 참인 것을 모두 고르면? [3점]

————— <보기> —————

가.  $A$  가 가역행렬일 때,  $A^{-1}$  도 상삼각행렬이다.  
 나.  $A$  가 가역일 필요충분조건은  $A$  의 주대각성분의 곱이 0이 아닌 것이다.  
 다.  $B$  가 대칭행렬일 때,  $A$  와  $B$  가 직교대응이면  $A$  는 대각행렬이다.

- ① 가, 나                      ② 가, 다                      ③ 나, 다                      ④ 가, 나, 다

45.  $A$  가  $m \times n$  행렬일 때, 선형사상  $T: \mathbb{R}^n \rightarrow \mathbb{R}^m$  을 모든  $x \in \mathbb{R}^n$  에 대하여  $T(x) = Ax$  로 정의하자. 이 때 <보기>에서 항상 참인 것을 모두 고르면? [3점]

————— <보기> —————

가.  $m < n$  이고  $A$  의 위수(rank)가  $m$  이면  $T$  는 일대일(one-to-one)선형사상이다.  
 나.  $n < m$  이고  $A$  의 위수(rank)가  $n$  이면  $T$  는 위로(onto)선형사상이다.  
 다.  $m = n$  이고  $A$  의 위수(rank)가  $n$  이면  $T$  는 일대일대응(one-to-one correspondence) 선형사상이다.

- ① 가, 나                      ② 다                      ③ 가, 다                      ④ 가, 나, 다



정답 (A형)

문항	정답
01	1
02	2
03	3
04	2
05	4
06	3
07	4
08	2
09	1
10	2
11	3
12	1
13	1
14	3
15	4
16	1
17	3
18	1
19	4
20	3
21	1
22	3
23	4
24	3
25	1
26	4
27	1
28	3
29	4
30	2
31	1
32	3
33	4
34	3
35	1
36	2
37	1
38	4
39	3
40	2
41	3
42	2
43	1
44	4
45	2

