

2009학년도 11월 고2 전국연합학력평가
정답 및 해설

• 1교시 언어 영역 •

1	①	2	③	3	③	4	④	5	④
6	①	7	④	8	④	9	②	10	②
11	②	12	①	13	⑤	14	①	15	③
16	⑤	17	④	18	⑤	19	④	20	④
21	②	22	⑤	23	⑤	24	④	25	②
26	②	27	③	28	③	29	①	30	④
31	⑤	32	⑤	33	①	34	①	35	⑤
36	②	37	④	38	④	39	③	40	①
41	③	42	③	43	④	44	④	45	①
46	①	47	①	48	①	49	⑤	50	②

[듣 기]

〈1번〉 이제 여러분은 바다거북에 대한 이야기를 듣게 됩니다. 잘 듣고 물음에 답하십시오.

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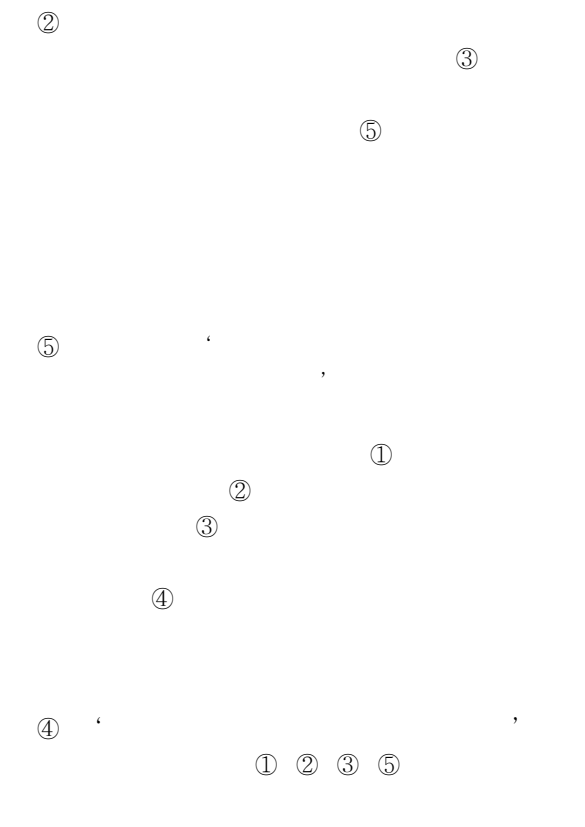
〈2번〉 이번에는 전통 혼례에 대한 대화의 일부를 들려 드립니다. 잘 듣고 물음에 답하십시오.

〈3번〉 이번에는 강연의 일부를 들려 드립니다. 잘 듣고 물음에 답하십시오.

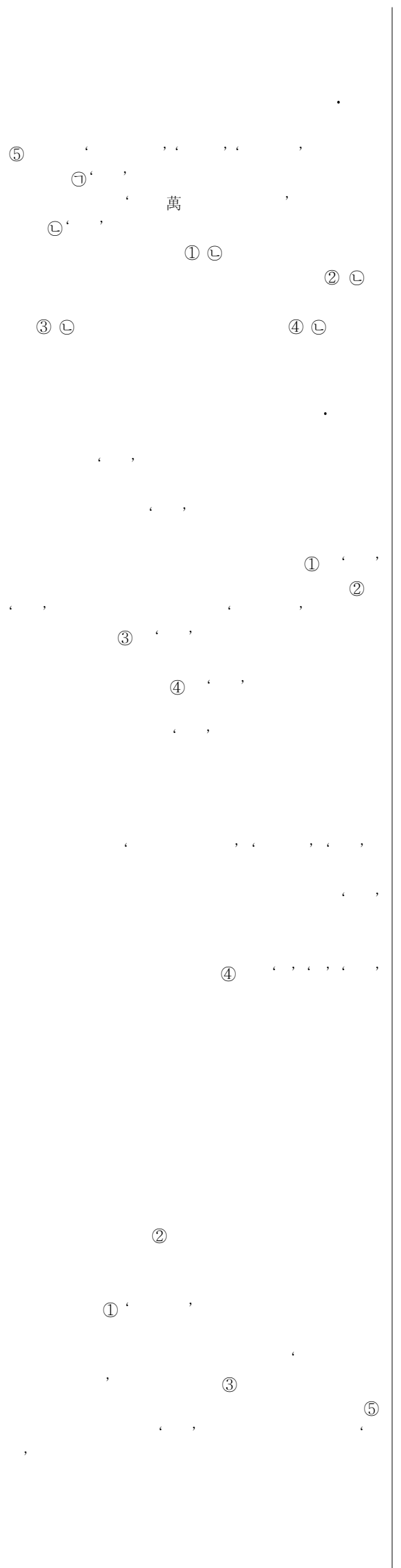
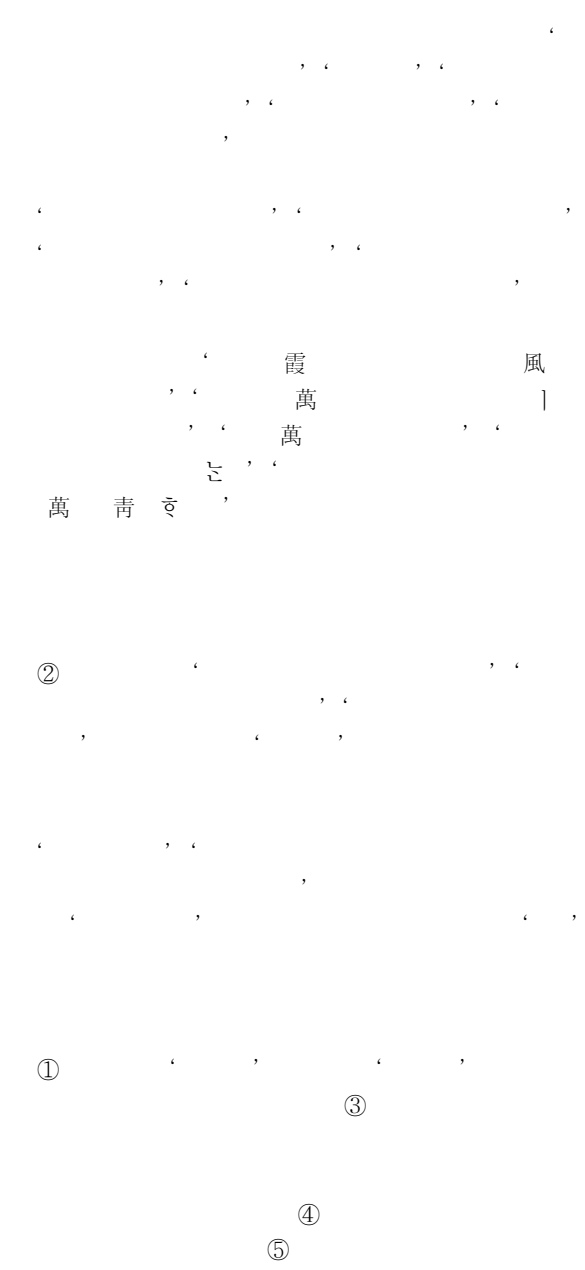
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〈4, 5번〉 이번에는 ‘학부제와 학과제’에 관한 두 학생의 대화를 들려 드립니다. 잘 듣고 4번과 5번의 두 물음에 답하십시오.

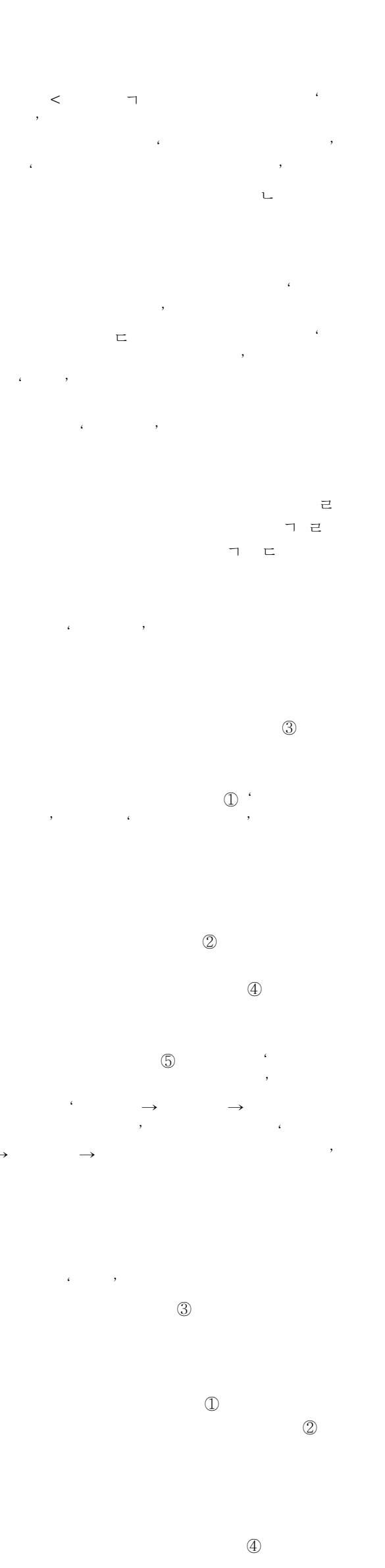
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[20~25] 시가복합 제재
 <출전> (가) 신석정, 「청산백운도(靑山白雲圖)」
 (나) 오세영, 「등산(登山)」
 (다) 이황, 「도산십이곡(陶山十二曲)」



[26~29] 기술 제재
 <출전> 홍기용 외, 「한국 연안의 해역특성을 고려한 파
 력발전 방식의 적용성 분석」



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 ⑤ e ‘ , , ‘
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[30~32] 사회 제재
 <출전> 박유영, 「경제학원론」

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[33~36] 고전소설 제재
 <출전> 작자 미상, 「심청전」

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[37~40] 과학 제재
 <출전> 폴 헤위트, 「알기 쉬운 물리학 강의」

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[41~44] 현대소설
 <출전> 김원일, 「어둠의 훈」

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• 2교시 수리 영역 •

[가형]

1	①	2	③	3	①	4	④	5	③
6	②	7	⑤	8	⑤	9	③	10	④
11	②	12	①	13	④	14	②	15	⑤
16	④	17	⑤	18	①	19	③	20	②
21	⑤	22		23		24		25	
26		27		28		29		30	

$$\sqrt[3]{2} \times 2^{-2} \times 2^{\frac{2}{3}} = 2^{\frac{1}{3} - 2 + \frac{2}{3}} = \frac{1}{2}$$

$$\begin{aligned} \lim_{n \rightarrow \infty} \frac{n^2}{(2n-1)(2n+1)} &= \lim_{n \rightarrow \infty} \frac{n^2}{4n^2-1} \\ n^2 \lim_{n \rightarrow \infty} \frac{1}{4-\frac{1}{n^2}} &= \frac{1}{4} \end{aligned}$$

$$\begin{aligned} A &= \begin{pmatrix} 1 & 2 \\ 1 & -1 \end{pmatrix} \\ A^2 &= \begin{pmatrix} 1 & 2 \\ 1 & -1 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 1 & -1 \end{pmatrix} = \begin{pmatrix} 3 & 0 \\ 0 & 3 \end{pmatrix} = 3E \\ A^3 &= A^2 A = (3E)A = 3A \\ A^5 &= A^3 A^2 = (3A)(3E) = 9A \end{aligned}$$

$$\begin{aligned} a+2b &= 3 \\ y &= 1 & f(1) &= 2 \\ b &= 1 \\ \therefore a &= 1 \\ f\left(\frac{1}{16}\right) &= -\log_2 16 + 2 = -2 \end{aligned}$$

$$\begin{array}{lll} y = 2^{\log_3 x} & (a, b) \in A & b = 2^{\log_3 a} \\ \sqcap & 2^{\log_3 3a} = 2^{1 + \log_3 a} = 2 \cdot 2^{\log_3 a} = 2b \\ \sqcup & \frac{1}{b} = 2^{-\log_3 a} = 2^{\log_3 \frac{1}{a}} \\ & \left(\frac{1}{a}, \frac{1}{b} \right) \in A \\ \sqsubset & (c, d) \in A & d = 2^{\log_3 c} \\ & 2^{\log_3 ac} = 2^{\log_3 a + \log_3 c} = 2^{\log_3 a} \cdot 2^{\log_3 c} = bd \end{array}$$

$$\begin{aligned} f(x) &= x^{n+1} + x^n \\ x^2 - 5x + 6 & \qquad Q(x) \\ f(x) &= x^{n+1} + x^n \\ &= (x-2)(x-3)Q(x) + a_n x + b_n \\ f(2) &= 2^{n+1} + 2^n = 2a_n + b_n \\ f(3) &= 3^{n+1} + 3^n = 3a_n + b_n \\ a_n &= 4 \cdot 3^n - 3 \cdot 2^n \quad b_n = -8 \cdot 3^n + 9 \cdot 2^n \end{aligned}$$

$$\lim_{n \rightarrow \infty} \frac{b_n}{a_n} = \lim_{n \rightarrow \infty} \frac{-8 \cdot 3^n + 9 \cdot 2^n}{4 \cdot 3^n - 3 \cdot 2^n} = -2$$

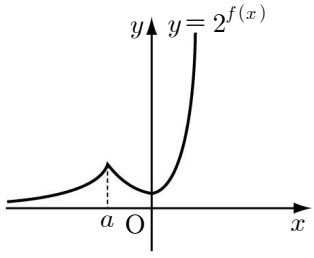
$$\begin{array}{llll} \top & n=1 & 1 \leq \log_2 x < 3 & 2 \leq x < 8 \\ & A_1 = \{2 & 3 & 4 & 5 & 6 & 7\} \\ \vdash & A_n = \{x | 2^{2n-1} \leq x < 2^{2n+1} & x & \} \\ & A_{n+1} = \{x | 2^{2n+1} \leq x < 2^{2n+3} & x & \} \\ & A_n \cap A_{n+1} = \emptyset \\ \sqsubset & A_n & \\ & 2^{2n+1} - 2^{2n-1} = 3 \cdot 2^{2n-1} \end{array}$$

$$\begin{aligned} 3a_{n+2} &= 2a_{n+1} + a_n \\ 3a_{n+2} - 3a_{n+1} &= -a_{n+1} + a_n \\ a_{n+2} - a_{n+1} &= -\frac{1}{3}(a_{n+1} - a_n) \\ a_n &= p + \sum_{k=1}^{n-1} (q-p) \left(-\frac{1}{3}\right)^{k-1} \\ \therefore_{n \rightarrow \infty} a_n &= p + \frac{q-p}{1 - \left(-\frac{1}{3}\right)} = \frac{p+3q}{4} \end{aligned}$$

$$\begin{aligned} A^2 - A &= p(A - E) \\ A^3 - A^2 &= p(A^2 - A) = p^2(A - E) \\ A^4 - A^3 &= p^2(A^2 - A) = p^3(A - E) \\ &\vdots \\ A^n - A^{n-1} &= p^{n-1}(A - E) \\ A^n - A &= (p + p^2 + \cdots + p^{n-1})(A - E) \\ A^n &= (1 + p + p^2 + \cdots + p^{n-1})A \\ &\quad - (p + p^2 + \cdots + p^{n-1})E \\ \text{i} \quad p &= 1 \quad A^n = nA - (n-1)E \\ \text{ii} \quad p &\neq 1 \\ A^n &= \frac{1}{p-1}(p^n - 1)A - \frac{1}{p-1}(p^n - p)E \end{aligned}$$

$$\begin{array}{ccccccc}
 3 \cdot 2^n & & 1 & 2 & 2^2 & \cdots & 2^n \\
 & & 3 & 3 \cdot 2 & 3 \cdot 2^2 & \cdots & 3 \cdot 2^n \\
 S(n) = & \left(1 + \frac{1}{2} + \frac{1}{2^2} + \cdots + \frac{1}{2^n} \right) \\
 & + \left(\frac{1}{3} + \frac{1}{3 \cdot 2} + \frac{1}{3 \cdot 2^2} + \cdots + \frac{1}{3 \cdot 2^n} \right) \\
 & \frac{1}{3} \\
 S(n) = & \frac{1}{1 - \frac{1}{2}} + \frac{\frac{1}{3}}{1 - \frac{1}{2}} = \frac{8}{3} \\
 n \rightarrow \infty
 \end{array}$$

- i $x < a$ x
- ii $a \leq x < 0$
- iii $x \geq 0$ $y \geq 1$



$$2\log c = \log \frac{2aG}{b} \quad \dots \quad (7)$$

$$2\log kc = \log \frac{2.600aG}{6b} \dots \textcircled{L}$$

$$\begin{aligned} \textcircled{L} \quad \textcircled{7} \quad 2\log k &= \log 100 \\ \therefore k &= 10 \end{aligned}$$

$$\begin{array}{ll} \text{i} & n = 1 \qquad a_1 = 3 \\ \text{ii} & n \geq 2 \qquad a_n = S_n - S_{n-1} \\ & 2S_n = S_n - S_{n-1} + \frac{9}{S_n - S_{n-1}} \\ & (S_n)^2 - (S_{n-1})^2 = 9 \\ & \{(S_n)^2\} \qquad \qquad \qquad 9 \\ & 9 \\ & (S_n)^2 = 9n \qquad S_n = 3\sqrt{n} \quad n \geq 1 \\ & \therefore S_{100} = 30 \end{array}$$

$$\begin{aligned} \log_3 \sqrt{b-2a} - \log_3 a &= \log_3 \frac{\sqrt{b-2a}}{a} \\ &= \log_3 \frac{\sqrt{(10^5+1)a-2a}}{a} = \log_3 \frac{\sqrt{(10^5-1)a}}{a} \\ &= \log_3 \sqrt{\frac{(10^5-1)}{a}} = \log_3 \sqrt{\frac{99999}{11111}} = \log_3 3 = 1 \end{aligned}$$

$$1 \cdot 4 + 2 \cdot 8 + 3 \cdot 12 + \dots + 9 \cdot 36$$
$$= \sum_{k=1}^9 4k^2 = 4 \cdot \frac{9 \cdot 10 \cdot 19}{6} = 1140$$

$$\begin{aligned} \overline{AC} &= a & \overline{OC} &= ar & \overline{BC} &= ar^2 \\ \triangle ABC & \quad \angle ACB = 90^\circ \\ a^2 + (ar^2)^2 &= (2ar)^2 & r^4 - 4r^2 + 1 &= 0 \\ \therefore r^2 &= 2 \pm \sqrt{3} \\ \frac{\overline{BC}}{\overline{AC}} &= \frac{ar^2}{a} = r^2 > 1 & \therefore \overline{AC} < \overline{OC} < \overline{BC} \\ \frac{\overline{BC}}{\overline{AC}} &= 2 + \sqrt{3} \end{aligned}$$

$$\begin{array}{cccccccc} & & & & & & & \{a_n\} \\ \{a_n\} & 1 & 2 & 4 & 7 & 11 & 16 & \cdots \\ & & & & & & & \\ a_{20} = 1 + \sum_{k=1}^{19} k & = 191 & & & & & & 20 \\ & & & & & & & \\ & & & & & & & 191 \end{array}$$

• 3교시 외국어[영어]영역 •

1	⑤	2	①	3	①	4	③	5	②
6	⑤	7	④	8	⑤	9	②	10	⑤
11	⑤	12	③	13	⑤	14	⑤	15	③
16	③	17	①	18	①	19	⑤	20	⑤
21	④	22	④	23	③	24	③	25	②
26	②	27	②	28	④	29	③	30	③
31	①	32	①	33	③	34	①	35	④
36	⑤	37	④	38	④	39	②	40	④
41	③	42	②	43	④	44	⑤	45	①
46	②	47	③	48	③	49	①	50	②

[듣 기]

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	” “	— — “ ”
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• 4교시 사회탐구 영역 •

[윤리(윤리와 사상 · 전통윤리)]

1	①	2	③	3	②	4	⑤	5	⑤
6	③	7	④	8	①	9	③	10	③
11	⑤	12	⑤	13	③	14	②	15	②
16	①	17	④	18	②	19	②	20	②

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1	②	2	①	3	⑤	4	②	5	④
6	⑤	7	①	8	④	9	①	10	③
11	③	12	①	13	①	14	③	15	⑤
16	①	17	③	18	④	19	②	20	②

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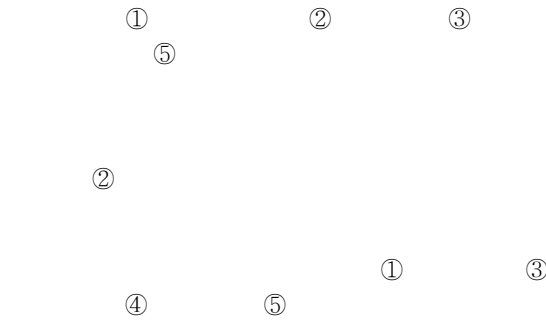
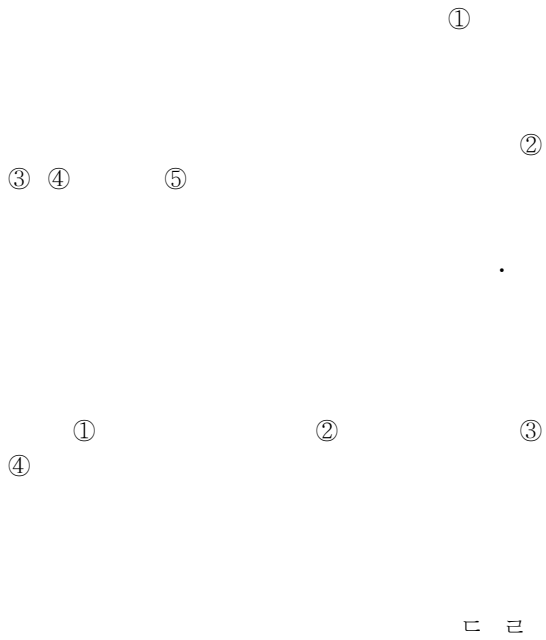
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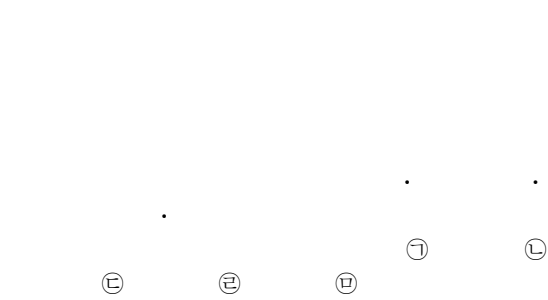
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[한국지리]

1	4	2	2	3	1	4	3	5	5
6	2	7	2	8	4	9	1	10	1
11	3	12	5	13	1	14	1	15	5
16	1	17	4	18	5	19	3	20	3



[세계지리]

1	5	2	3	3	5	4	1	5	4
6	5	7	2	8	2	9	2	10	3
11	3	12	2	13	2	14	5	15	1
16	1	17	2	18	4	19	3	20	4



[경제지리]

1	②	2	④	3	⑤	4	③	5	①
6	③	7	①	8	②	9	⑤	10	②
11	⑤	12	①	13	⑤	14	②	15	⑤
16	②	17	④	18	③	19	④	20	④

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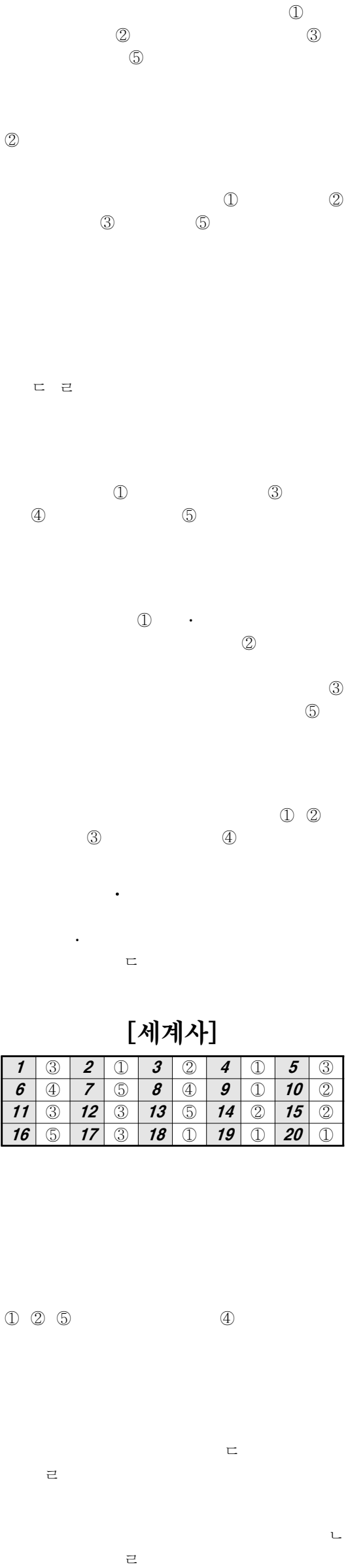
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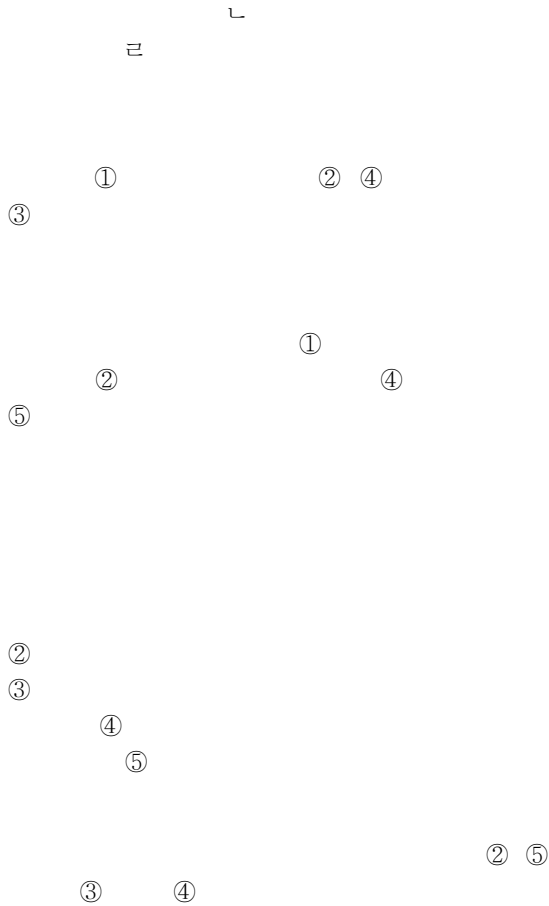
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1	②	2	③	3	①	4	⑤	5	②
6	⑤	7	⑤	8	④	9	④	10	①
11	①	12	④	13	②	14	④	15	③
16	①	17	②	18	④	19	⑤	20	③



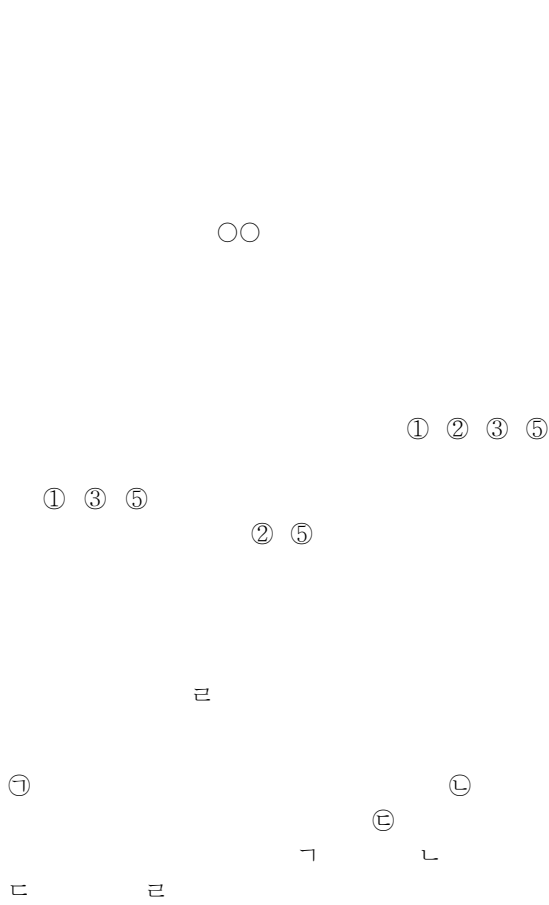
1	③	2	①	3	②	4	①	5	③
6	④	7	⑤	8	④	9	①	10	②
11	③	12	③	13	⑤	14	②	15	②
16	⑤	17	③	18	①	19	①	20	①





[법과사회]

1	①	2	④	3	⑤	4	②	5	③
6	②	7	④	8	①	9	③	10	④
11	③	12	①	13	③	14	②	15	⑤
16	①	17	③	18	①	19	②	20	⑤



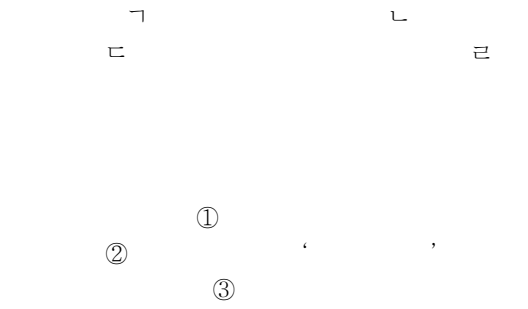
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[정치]

1	④	2	③	3	⑤	4	②	5	②
6	①	7	①	8	④	9	③	10	①
11	③	12	⑤	13	④	14	④	15	⑤
16	②	17	⑤	18	③	19	①	20	⑤



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1	③	2	⑤	3	③	4	①	5	①
6	③	7	③	8	④	9	②	10	③
11	②	12	②	13	④	14	④	15	④
16	①	17	②	18	②	19	⑤	20	⑤

The figure consists of two square grids of points. In the left grid, points are labeled 1 through 5. In the right grid, points are labeled 1 through 5, with a 'kg' label next to point 2.

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[사회 · 문화]

1	5	2	3	3	1	4	3	5	2
6	2	7	4	8	2	9	4	10	3
11	1	12	3	13	5	14	1	15	2
16	5	17	4	18	2	19	5	20	5

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• 4교시 과학탐구 영역 •

[물리 I]

1	3	2	5	3	2	4	5	5	2
6	1	7	3	8	2	9	3	10	4
11	1	12	4	13	3	14	4	15	5
16	3	17	2	18	1	19	1	20	4

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$$P-(\neg P) \quad P$$

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$$f_A = \mu mg$$

$$f_B = 2\mu mg$$

$$\frac{\mu mg}{m}$$

$$\frac{\mu 2mg}{2m}$$

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$$\frac{1}{2}mv_{\text{A}}^2 \quad v_{\text{A}} \quad 2\sqrt{2gh} \quad v_{\text{B}} \quad \sqrt{2gh}$$

$$mgh \quad \frac{1}{2}mv_{\text{B}}^2$$

$$m\sqrt{2gh} \quad m\sqrt{2gh} \quad mV$$

$$V \quad \sqrt{\frac{gh}{2}}$$

$$\frac{3mv}{m} = \frac{mv_A + mv_B}{v_A + v_B = 3v}$$

$$v = v_B - v_A \qquad v_A = v$$

$$v_B = 2v$$

$$\frac{J}{s} = \frac{m}{s} \times s$$

$$\times h \qquad mgh \qquad P$$

$$= Fv$$

$$\frac{1}{2}mv^2 \quad \frac{1}{2}mv^2 \quad mgh \quad mgh$$

$$v \quad \sqrt{3gh}$$

$$R = \rho \frac{L}{S} \qquad R_A : R_B = 1 : 4$$

$$I_A : I_B = 4 : 1$$

$$\frac{V}{R_1} = \frac{R_2}{2} \qquad V \quad V \qquad R_1 \quad R_2$$

$$I \qquad d \qquad B = k \frac{I}{2d}$$

			B_p	B_q	B_r
①	→	↑	B		B
②	→	↓	B	B	B
③	←	↑	B	B	B
④	←	↓	B		B

$$B_p \quad B_r \quad B_q$$

$$\rightarrow \qquad \rightarrow$$

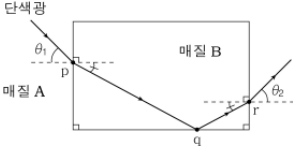
$$\rightarrow \qquad \rightarrow$$

$$3P \qquad 3P$$

$$R_C \quad R_A \quad R_B \qquad R_A \quad R_B \quad R_C$$

$$A \qquad T$$

$$\frac{1}{4}T$$

$$\theta_1 = \theta_2$$


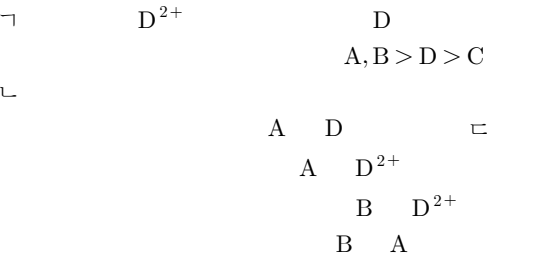
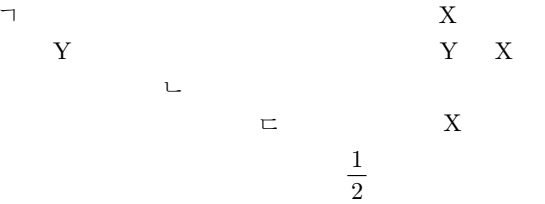
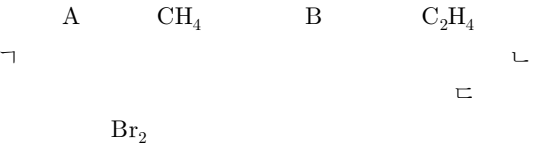
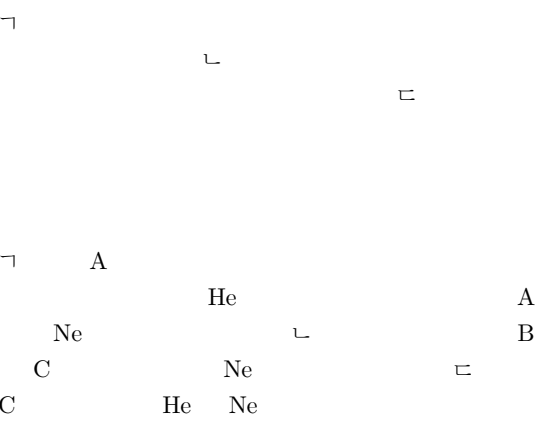
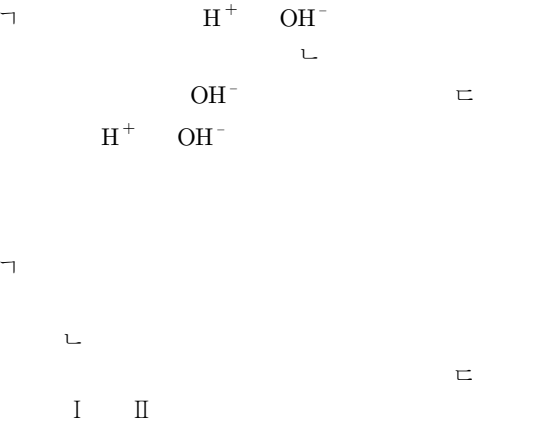
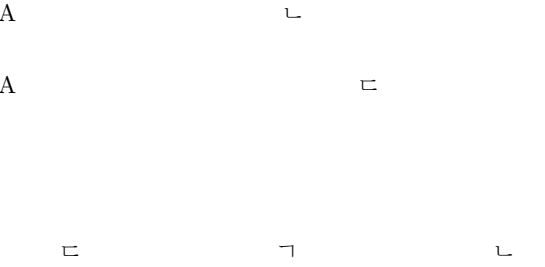
$$4L \qquad T \qquad \frac{4L}{v} = \frac{4L}{T}$$

$$\frac{3}{4}T$$

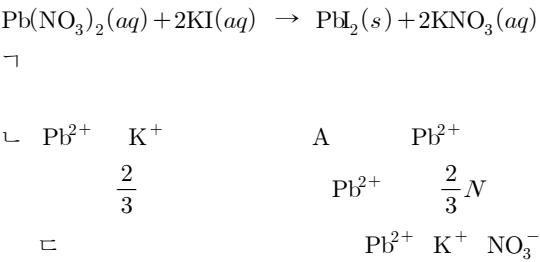
$$d$$

[화학 I]

1	⑤	2	⑤	3	④	4	③	5	③
6	⑤	7	④	8	①	9	④	10	②
11	②	12	⑤	13	④	14	③	15	①
16	③	17	④	18	②	19	①	20	②



HCO_3^-
 Ca^{2+}
 X X Z Z
 X X Z Z
 Y Z X
 L Y L
 A H B Li C Na D
 N E O F F
 HF AgNO_3
 $\text{Na}_2\text{O} + \text{H}_2\text{O} \rightarrow 2\text{NaOH}$ H_2
 NO
 K
 KCl
 Cl^-
 ATP
 $2\text{M} + 2\text{H}_2\text{O} \rightarrow 2\text{MOH} + \text{H}_2$
 A B
 OH^- pH
 Cl_2
 HCl MnO_2
 Cl_2
 HClO NaCl
 $\text{Cl}_2 + 2\text{Br}^- \rightarrow 2\text{Cl}^- + \text{Br}_2$
 Br^-
 C_6H_6
 A
 B C_6H_{12}
 COOH
 CHO



[생물 I]

1	⑤	2	①	3	④	4	⑤	5	③
6	④	7	③	8	④	9	②	10	①
11	①	12	①	13	③	14	⑤	15	⑤
16	③	17	②	18	④	19	⑤	20	④

CO_2
 ATP
 X C A B
 X
 A B C
 β X X

NH_3 X
 ATP ATP Y
 III
 A
 B AB A C
 B D
 TSH
 HCG
 HCG
 A B C

A

[지구과학 I]

1	⑤	2	④	3	③	4	⑤	5	③
6	②	7	②	8	④	9	④	10	⑤
11	③	12	②	13	①	14	③	15	⑤
16	①	17	④	18	④	19	⑤	20	①

• 4교시 직업탐구 영역 •

[농업정보관리]

1	④	2	③	3	④	4	②	5	①
6	③	7	⑤	8	②	9	③	10	③
11	①	12	②	13	⑤	14	④	15	④
16	③	17	④	18	⑤	19	②	20	③

[정보기술기초]

1	②	2	③	3	④	4	④	5	①
6	⑤	7	②	8	④	9	④	10	④
11	⑤	12	⑤	13	①	14	⑤	15	③
16	①	17	②	18	③	19	②	20	①

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[컴퓨터일반]

1	⑤	2	①	3	⑤	4	④	5	②
6	③	7	③	8	⑤	9	①	10	③
11	②	12	④	13	②	14	④	15	①
16	⑤	17	⑤	18	②	19	③	20	③

[수산·해운정보처리]

1	②	2	③	3	④	4	①	5	③
6	⑤	7	④	8	⑤	9	①	10	②
11	⑤	12	①	13	④	14	②	15	④
16	⑤	17	④	18	②	19	③	20	④

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[농업이해]

1	⑤	2	⑤	3	④	4	①	5	⑤
6	①	7	④	8	②	9	③	10	②
11	②	12	④	13	④	14	③	15	②
16	④	17	④	18	①	19	③	20	③

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[농업기초기술]

1	⑤	2	⑤	3	③	4	④	5	②
6	①	7	④	8	②	9	⑤	10	①
11	②	12	③	13	②	14	④	15	④
16	④	17	⑤	18	⑤	19	①	20	④

[공업입문]

1	④	2	⑤	3	④	4	③	5	③
6	⑤	7	②	8	①	9	②	10	④
11	③	12	⑤	13	④	14	④	15	②
16	③	17	②	18	⑤	19	①	20	①

- ①
- ②
- ③
- ④
- ⑤

1 ③	2 ⑤	3 ⑤	4 ③	5 ④
6 ①	7 ④	8 ④	9 ②	10 ②
11 ⑤	12 ②	13 ③	14 ④	15 ④
16 ①	17 ②	18 ④	19 ①	20 ④

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1	⑤	2	④	3	①	4	②	5	④
6	⑤	7	④	8	②	9	②	10	③
11	⑤	12	③	13	④	14	②	15	①
16	①	17	③	18	⑤	19	②	20	④

[회계원리]

1	①	2	③	3	④	4	④	5	③
6	⑤	7	①	8	④	9	①	10	①
11	④	12	③	13	③	14	⑤	15	②
16	⑤	17	⑤	18	②	19	④	20	②

[수산 일반]

1	③	2	④	3	②	4	③	5	⑤
6	①	7	②	8	①	9	①	10	③
11	⑤	12	④	13	④	14	③	15	④
16	③	17	②	18	⑤	19	④	20	⑤

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[해사일반]

1	③	2	②	3	②	4	⑤	5	⑤
6	④	7	①	8	④	9	⑤	10	③
11	⑤	12	①	13	④	14	②	15	③
16	①	17	④	18	④	19	①	20	⑤

부정기선의 특징 이해하기

항해 용선 계약서의 체선료와 조출료
의 정산 방법 적용하기

선체의 구조 형식 조사 후 탐구하기

항만 시설의 종류와 특성 이해하기

개항의 항계 안에서 선박의 항법 적용
하기

개항의 항계 안에서 법률 적용하기

화물의 집화와 선적과정을 이해
하기

[해양일반]

1	①	2	②	3	④	4	②	5	③
6	④	7	⑤	8	②	9	⑤	10	③
11	①	12	④	13	①	14	③	15	⑤
16	②	17	⑤	18	②	19	③	20	⑤

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[인간 발달]

1	②	2	①	3	④	4	②	5	⑤
6	③	7	③	8	④	9	②	10	②
11	③	12	①	13	④	14	⑤	15	②
16	④	17	⑤	18	⑤	19	③	20	④

[식품과 영양]

1	②	2	③	3	②	4	①	5	①
6	⑤	7	④	8	③	9	②	10	⑤
11	②	12	③	13	⑤	14	⑤	15	②
16	③	17	③	18	①	19	⑤	20	④

②

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[디자인일반]

1	③	2	④	3	②	4	③	5	⑤
6	①	7	④	8	⑤	9	⑤	10	②
11	⑤	12	②	13	④	14	①	15	⑤
16	④	17	①	18	③	19	④	20	②

① ② ③ ④
⑤

④ ① ② ③
⑤

①

① ② ③ ④
⑤

[프로그래밍]

1	④	2	②	3	⑤	4	②	5	⑤
6	②	7	①	8	④	9	③	10	③
11	③	12	④	13	②	14	①	15	②
16	①	17	③	18	②	19	③	20	④

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