

2021) 시작이반이다 토목기사 100선300제 1차 정오표 [2021.10.30]

페이지	항 목	오	정																				
104	핵심100선 52번 예제 02 해설 수정	$(1) a = \frac{A_s \cdot f_y}{0.85 f_{ck} \cdot b} = \frac{(1,548)(350)}{0.85(28)(300)} = 75.882\text{mm}$ $(2) f_{ck} \leq 28\text{MPa} : \beta_1 = 0.85$ $a = \beta_1 \cdot c$ <p>에서 $c = \frac{a}{\beta_1} = \frac{(75.882)}{(0.85)} = 89.272\text{mm}$</p> $(3) \epsilon_t = \frac{d_t - c}{c} \cdot \epsilon_c = \frac{(450) - (89.272)}{(89.272)} \cdot (0.003) = 0.01212$	$(1) a = \frac{A_s \cdot f_y}{0.85 f_{ck} \cdot b} = \frac{(1,548)(350)}{0.85(28)(300)} = 75.882\text{mm}$ $(2) f_{ck} \leq 40\text{MPa} : \beta_1 = 0.80$ $a = \beta_1 \cdot c$ <p>에서 $c = \frac{a}{\beta_1} = \frac{(75.882)}{(0.80)} = 94.853\text{mm}$</p> $(3) \epsilon_t = \frac{d_t - c}{c} \cdot \epsilon_c = \frac{(450) - (94.853)}{(94.853)} \cdot (0.003) = 0.01236$																				
105	핵심100선 52번 예제 03 보기 수정	① 0.0047 ② 0.0085 ③ 0.0126 ④ 0.0187	① 0.0047 ② 0.0085 ③ <u>0.0138</u> ④ 0.0187																				
	해설 수정	$(1) a = \frac{A_s \cdot f_y}{0.85 f_{ck} \cdot b} = \frac{(1,548)(400)}{0.85(35)(300)} = 69.378\text{mm}$ $(2) f_{ck} > 28\text{MPa} : \beta_1 = 0.85 - 0.007(35 - 28) = 0.801 \geq 0.65$ $(3) a = \beta_1 \cdot c \text{에서 } c = \frac{a}{\beta_1} = \frac{(69.378)}{(0.801)} = 86.614\text{mm}$ $(4) \epsilon_t = \frac{d_t - c}{c} \cdot \epsilon_c = \frac{(450) - (86.614)}{(86.614)} \cdot (0.003) = 0.01258$	$(1) a = \frac{A_s \cdot f_y}{0.85 f_{ck} \cdot b} = \frac{(1,548)(400)}{0.85(35)(300)} = 69.378\text{mm}$ $(2) f_{ck} \leq 40\text{MPa} : \beta_1 = 0.80$ $(3) a = \beta_1 \cdot c \text{에서 } c = \frac{a}{\beta_1} = \frac{(69.378)}{(0.80)} = 86.723\text{mm}$ $(4) \epsilon_t = \frac{d_t - c}{c} \cdot \epsilon_c = \frac{(450) - (86.723)}{(86.723)} \cdot (0.003) = 0.01382$																				
134	핵심100선 67번 예제 02 보기 수정	① 0.850 ② 0.801 ③ 0.766 ④ 0.754	① 0.850 ② 0.801 ③ <u>0.80</u> ④ 0.754																				
	해설 수정	$\beta_1 = 0.85 - 0.007[(40) - 28] = 0.766 \geq 0.65$	$f_{ck} \leq 40\text{MPa} : \beta_1 = 0.80$																				
	예제 03 해설 및 정답 수정	해설 (1) $f_{ck} > 28\text{MPa} : \beta_1 = 0.85 - 0.007[(60) - 28] = 0.626 \geq 0.65$ (2) $\beta_1 \geq 0.65$ 이어야 하므로 $\beta_1 = 0.65$ (3) $a = \beta_1 \cdot c = (0.65)(500) = 325\text{mm}$ 정답 ②	해설 등분포 응력크기 가정 : $\eta(0.85f_{ck})$ <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>$f_{ck}(\text{MPa})$</th> <th>η</th> <th>β_1</th> </tr> </thead> <tbody> <tr> <td>≤ 40</td> <td>1.00</td> <td>0.80</td> </tr> <tr> <td>50</td> <td>0.97</td> <td>0.80</td> </tr> <tr> <td>60</td> <td>0.95</td> <td>0.76</td> </tr> <tr> <td>70</td> <td>0.91</td> <td>0.74</td> </tr> <tr> <td>80</td> <td>0.87</td> <td>0.82</td> </tr> <tr> <td>90</td> <td>0.84</td> <td>0.70</td> </tr> </tbody> </table> $\beta_1 = 0.75$ $a = \beta_1 \cdot c = 0.75 \times 500 = 375\text{mm}$ 정답 ③	$f_{ck}(\text{MPa})$	η	β_1	≤ 40	1.00	0.80	50	0.97	0.80	60	0.95	0.76	70	0.91	0.74	80	0.87	0.82	90	0.84
$f_{ck}(\text{MPa})$	η	β_1																					
≤ 40	1.00	0.80																					
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