



KD Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

Answer-key & Solution

SSC JE (SURVEYING)
Date 19.08.2017

1. A	13. A	25. A	37. A	49. B	61. C	73. D	85. B
2. B	14. B	26. D	38. D	50. B	62. A	74. A	86. C
3. C	15. A	27. A	39. B	51. A	63. A	75. D	87. C
4. C	16. B	28. C	40. C	52. D	64. A	76. D	88. A
5. B	17. B	29. B	41. A	53. C	65. D	77. B	89. B
6. C	18. C	30. B	42. D	54. B	66. C	78. B	90. B
7. A	19. A	31. D	43. C	55. D	67. A	79. A	
8. B	20. D	32. D	44. C	56. A	68. A	80. B	
9. A	21. C	33. D	45. C	57. C	69. B	81. A	
10. C	22. C	34. A	46. C	58. B	70. C	82. D	
11. C	23. C	35. D	47. C	59. B	71. B	83. D	
12. A	24. C	36. A	48. D	60. A	72. B	84. D	

Note : *If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353*

Note : *If you face any problem regarding result or marks scored, please contact : 9313111777*

SOLUTION

7.(A) 1cm = 50m

1cm = 5000cm

∴ It is largest scale

8.(B) Shrinkage factor = $\frac{\text{R.F of shrunk scale}}{\text{RF of original scale}}$

∴ $RF_{\text{shrunk}} = \frac{24}{25} \times \frac{1}{2400} = \frac{1}{2500}$

∴ Corrected scale ⇒ 1:2500

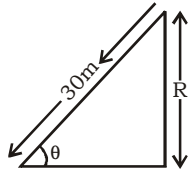
11.(C) True length × True scale
= Wrong length × wrong scale
Wrong scale = 30 - .1 = 29.9m
T.L × 30 = 29.9 × 300

$T.L = \frac{29.9 \times 300}{30} = 299m$

13.(A) True length × True Tape
= Wrong length × Wrong tape
200 × 20 = W.L × 200.80
W.L = 19.92m.

∴ Correct length of 20 m tape is 19.92m

15.(A) Slope correction = $\frac{h^2}{2L}$



$\tan \theta = \frac{1}{20}$

$\theta = 2.86 \quad \therefore h = 1.5$

$C_s = \frac{(1.5)^2}{2 \times 30} = .0375m = 3.75cm$

18.(C) $C_p = \frac{(P - P_s)L}{AE}$

$= \frac{(150 - 100)1500}{AE}$

$= \frac{50 \times 1500}{AE}$

34.(A) T.B = M.B ± θ

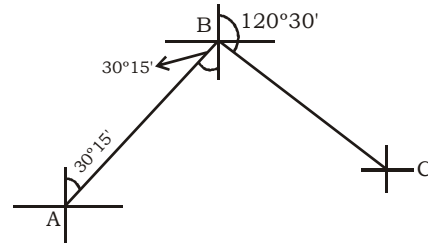
$34^\circ 20' 40'' = M.B - \theta_w$

$34^\circ 20' 40'' = M.B - 2^\circ 00' 20''$

$M.B = 34^\circ 20' 40'' + 2^\circ 00' 20''$

$= 36^\circ 21' 00''$

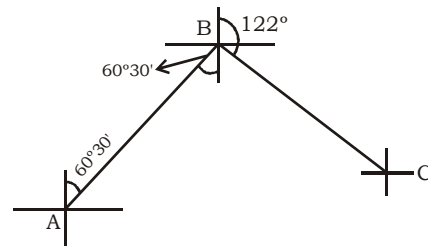
39.(B)



$\angle ABC \Rightarrow 30^\circ 15' + (180^\circ - 120^\circ 30')$

$= 89^\circ 45'$

43.(C)



$\angle ABC = 60^\circ 30' + (180 - 122^\circ)$

$= 118^\circ 30'$

44.(B) T.B = M.B ± θ

T.B = M.B - θ_w

= S45°E - 5°

⇒ S40°E