



MADE EASY

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Test Centres: Delhi, Noida, Hyderabad, Bhopal, Jaipur, Lucknow, Bhubaneswar, Indore, Pune, Kolkata, Patna

MPSC 2019 : Main Exam
ASSISTANT ENGINEER

**CIVIL
ENGINEERING**

Test 2

Subjectwise Test-2

Environmental Engg., Highway Engg., Bridge Engg., Tunnelling

ANSWER KEY

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

DETAILED EXPLANATIONS

36. (c)

Speed,

$$V = 60 \text{ km/hr}$$

Reaction time,

$$t_r = 2.5 \text{ sec.}$$

taking, $\mu = 0.35$

$$SSD = V \times t_r + \frac{V^2}{254\mu}$$

$$= 0.278 \times 60 \times 2.5 + \frac{60^2}{254 \times 0.35}$$

$$= 82.19 \text{ m}$$

For single lane, 2 way traffic,

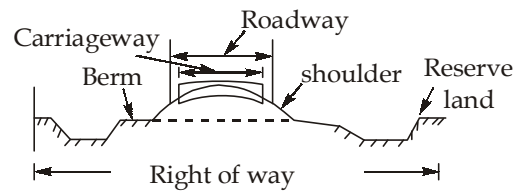
$$SSD = 2 \times SSD$$

$$= 2 \times 82.19 = 164.38 \text{ m}$$

38. (c)

The pensky marten closed cup flash point test is a test for the determination of flash point.

38. (b)



Right of way = carriageway width + shoulderwidth + road margins.

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